SANYO

FILE NO.

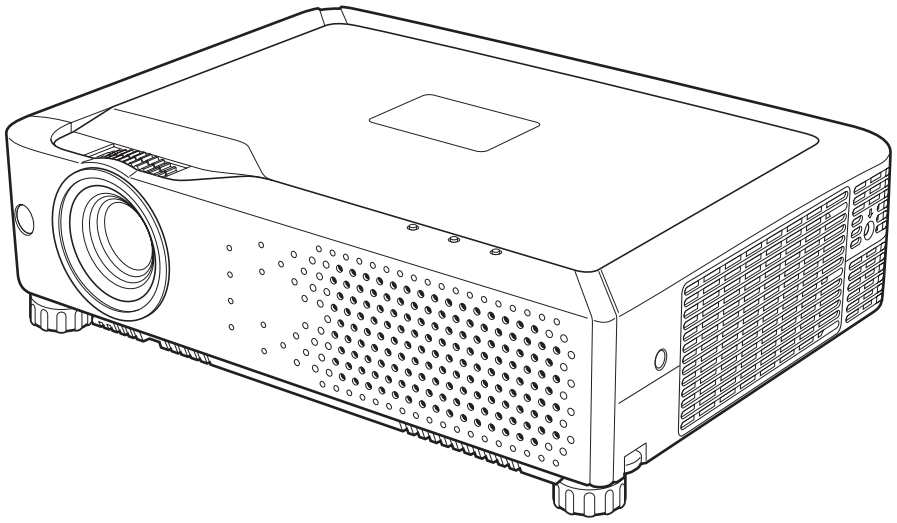
SERVICE MANUAL

Multimedia Projector

Model No. PLC-XE31

Europe, U.K

Original Version



NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.
If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

Chassis No. LG6-XE3100

RoHS
- This product does not contain any hazardous substances prohibited by the RoHS Directive. (You will find "RSF" mark near the rating plate on the RoHS compliant product.)

WARNING
- You are requested to use RoHS compliant parts for maintenance or repair.
- You are requested to use lead-free solder.

PRODUCT CODE
1 122 344 00 (LG6A)
1 122 344 02 (LG6C)

REFERENCE NO. SM5110786-00

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Safety Instructions

SAFETY PRECAUTIONS

WARNING:
The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line (⏦) in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PR OPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of there parts must be made by exactly the same parts.

SERVICE PERSONNEL WARNING

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.
Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages (15kV - 25kV) at its starts.
Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	9.66" x 2.3" x 6.82" (294.5mm x 69.5mm x 208mm) (Not including adjustable feet)
Net Weight	5.5 lbs (2.5kgs)
Feet Adjustment	0˚ to 10.0˚

Panel Resolution

LCD Panel System	0.6" TFT Active Matrix type, 3 panels
Panel Resolution	1,024 x 768 dots
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 ~ 100 KHz, V-sync. 50 ~ 100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 40" to 300"
Projection Lens	F 1.65 ~ 1.81 lens with f 22.5 mm ~ 27 mm with manual zoom and focus
Throw Distance	4.6' - 43.3' (1.4m - 13.2m)
Projection Lamp	170W

Interface

Video Input Jack	RCA Type x 1
S-Video Input Jack	Mini DIN 4 pin x 1
Audio Input Jacks	RCA Type x 2
Computer Input 1 / Component Input Terminal	Anlaog RGB (Mini D-sub 15 pin) Terminal X 1
Computer Input 2 / Monitor Output Terminal	Anlaog RGB (Mini D-sub 15 pin) Terminal X 1 (In / Out switchable)
Computer/ Component Audio Input Jack	Mini Jack (stereo) x 1
Service Port Connector	Mini DIN 8 pin x 1
USB Connector	USB Series B receptacle x 1
Audio Output Jack	Mini Jack (stereo) x 1 (Variable)

Audio

Internal Audio Amp	1.0W RMS
Built-in Speaker	1 speaker, ø1.1" (28mm)

Power

Voltage and Power Consumption	AC 100 ~ 120 V (2.9A Max. Ampere), 50 / 60 Hz (The U.S.A and Canada)
	AC 200 ~ 240 V (1.4A Max. Ampere), 50 / 60 Hz (Continental Europe and The U.K.)

Operating Environment

Operating Temperature	41 ˚F ~ 95 ˚F (5 ˚C ~ 35 ˚C)
Storage Temperature	14 ˚F ~ 140 ˚F (-10˚C ~ 60 ˚C)

Remote Control

Battery	AA or LR6 1.5V ALKALINE TYPE x 2
Operating Range	16.4' (5m) / ±30˚
Dimensions	1.9"(W) x 0.87"(H) x 5.7"(D) (49mm x 22mm x 145.3mm)
Net Weight	3.53 oz (100 g) (including batteries)

Antitheft Alarm

Battery	CR2 3V LITHIUM BATTERY x 1

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

c UL US LISTED

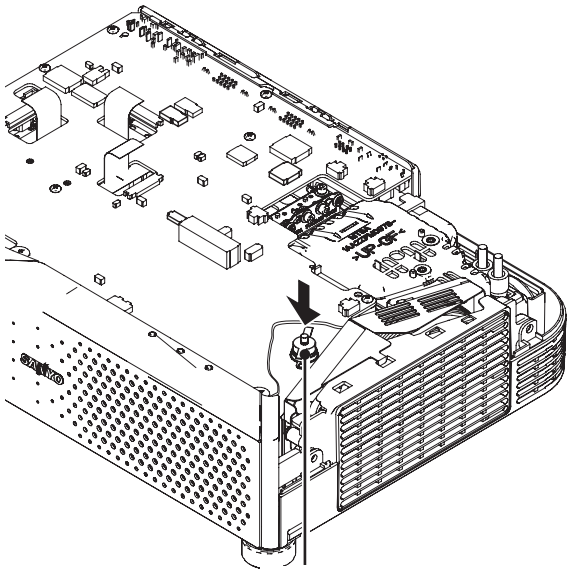
This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

Circuit Protections

This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

Thermal switch

There is the thermal switch (SW902) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 105˚C, the thermal switch opens to stop the operation of the power supply circuit.
The thermal switch cannot be reset itself automatically even if the internal temperature becomes normal. Reset the thermal switch following to the below procedure.


Thermal switch (SW902)

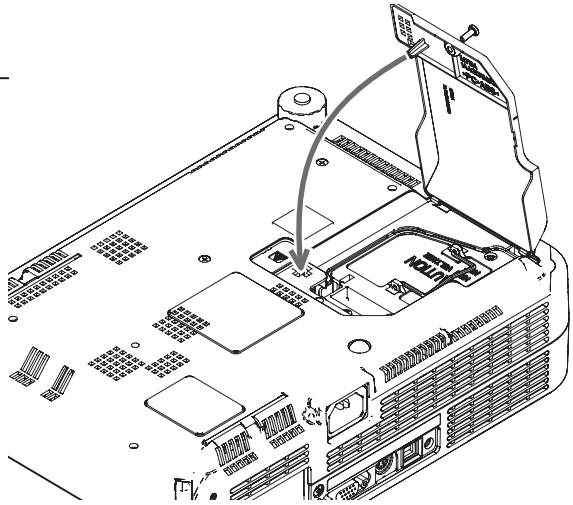
How to reset the thermal switch

1. Remove the cabinet top, cabinet front and main board and then remove the power box top cover.
2. Press the reset button on the thermal switch in the power box.

CAUTION:
Before press the reset button, make sure that the AC cord must be disconnected from the AC outlet.

Lamp cover switch

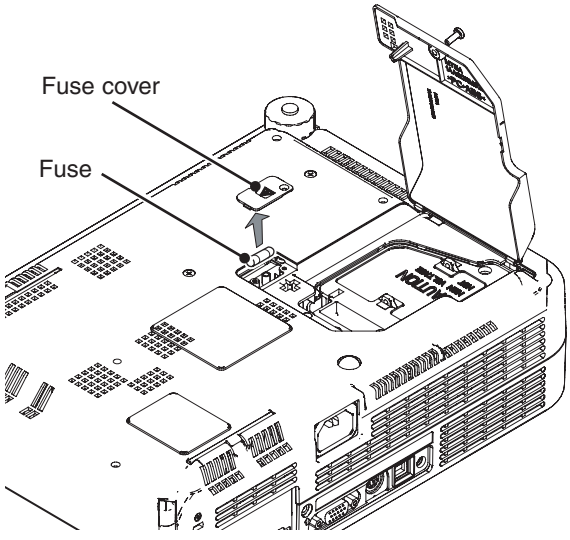
The lamp cover switch (SW901) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely. After opening the lamp cover for replacing the lamp ass'y, place the lamp cover correctly otherwise the projector can not turn on.



Fuse

A fuse is located inside of the projector. When the POWER indicator is not lightning, the fuse may be opened. Check the fuse as following steps.
The fuse should be used with the following type;

Fuse Part No.: 323 021 7804
TYPE T6.3AH 250V FUSE
LITTLE FUSE INC. TYPE 21506.3



How to replace the fuse

1. Remove the lamp cover and fuse cover as shown in figure.
2. Take the fuse out from the aperture, and replace the new one with the specified type.

Warning temperature and power failure protection

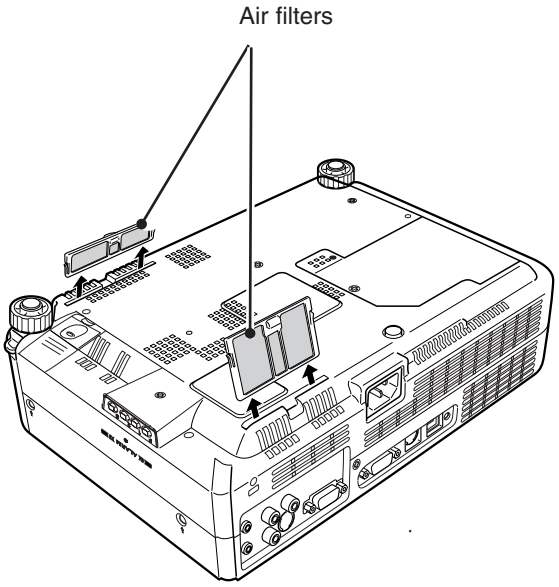
The projector will be automatically turned off when the internal temperature of the projector is abnormally high, or the cooling fans stop spinning, or the power supplies in the projector are failed.
- If the WARNING indicator is flashing, it may detect the abnormal temperature inside the projector. Check the following possible causes and wait until the WARNING indicator stops flashing, and then try to turn on the projector.
- If the WARNING indicator lights red, it may defect the cooling fans or power supply circuits. Check fans operation and power supply lines referring to the chapter “Power supply & protection circuit” in the Chassis Block Diagram section.

Possible causes
- Air filters are clogged with dust particles. Remove dust from the air filters by following instructions in the “Air filter care and cleaning” below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 ˚C or 41 to 95˚F)

Air filter care and cleaning

Air filters prevent dust from accumulating on the optical elements inside the projector. Should the air filters become clogged with dust particles, it will reduce cooling fans’ effectiveness and may result in internal heat build up and adversely affect the life of the projector. Clean the air filters following the steps below.

1. Turn off the projector, and disconnect the AC power cord from the AC outlet.
2. Turn over the projector and remove the air filters by pulling the latches upward.
3. Clean the air filters with a brush or rinse them softly.
4. When cleaning the air filters by rinsing, dry them well. Replace the air filters properly. Make sure that the air filters are fully inserted.



CAUTION:
Do not operate the projector with the air filters removed. Dust may accumulate on the LCD panel and the projection mirror degrading picture quality.
Do not put small parts into the air intake vents. It may result in malfunction of the projector.

RECOMMENDATION:
We recommend avoiding dusty/smoky environments when operating the projector. Usage in these environments may cause poor image quality.
When using the projector under dusty or smoky conditions, dust may accumulate on a lens, LCD panels, or optical elements inside the projector. This condition may degrade the quality of a projected image.
When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.

Anititheft Alarm Function Disable

This projector is equipped with an Antitheft alarm function which works when detecting a vibration to protect the projector from a suspicious person.

Release the alarm setting

Press the **F button** and input the four-digit PIN code within 10 seconds. (default PIN code "1111") When the alarm is released, you will hear high-pitched confirmation sound.
When inputting an incorrect PIN code, you will hear low-pitched sound. If you input incorrect PIN codes 3 times, the alarm will start ringing.

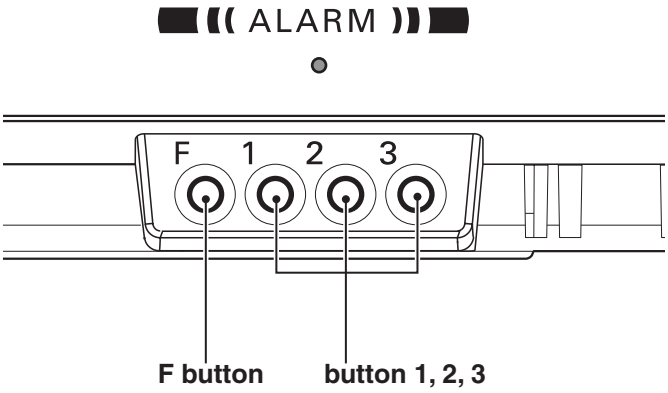
Reset settings (Not in the Antitheft mode on)

If you forget the PIN code to setup the alarm setting, press the **button 3** and then press the **F button** twice. All the settings you have made will go back to the factory default settings. (default PIN code "1111")

Cancelling the Antitheft mode

If you forget the PIN code to release the alarm setting, press and hold the **button 3** and **F button** at the same time for more than 3 seconds. The Antitheft mode will be off and all the settings you have made will go back to the factory default settings. (default PIN code "1111")

Side Control



Lamp Replacement

Lamp replacement

WARNING:
- For continued safety, replace with a lamp assembly of the same type.
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp module or touch the glass bulb! The glass can shatter and cause injury.

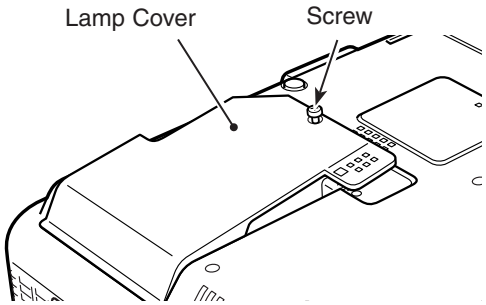
Procedure

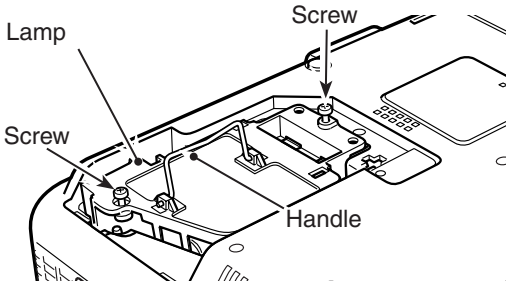
1 Turn off the projector and disconnect the AC cord.
2 Remove 1 screw with a screwdriver and remove the lamp cover.
3 Loosen 2 screws and pull out the lamp assembly by grasping the handle.
4 Replace the lamp with a new one and tighten the 2 screws back into position. Make sure that the lamp is set properly. Replace the lamp cover and tighten the screw.
5 Connect the AC cord to the projector and turn on.
6 Reset the lamp replacement counter, see below explanation.

Note
- The projector cannot be turned-on with lamp cover removed, because when the lamp cover is removed, the lamp cover switch is also released to switch off the lamp circuit.

ORDER REPLACEMENT LAMP

Type No.	Service Parts No.
POA-LMP102	610 328 6549





WARNING : TURN OFF THE UV LAMP BEFORE OPENING.
USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICEING.

How to reset Lamp Replace Counter

1 Turn the projector on, press the **MENU** button and the On-Screen Menu will appear. Press the ◀ or ▶ **button** to move the red frame pointer to the Setting Menu icon.
2 Press the ▼ **button** to move the red frame pointer to the Lamp counter reset item and then press the **SELECT** button. Select "Reset" and press the **SELECT** button. The message "Lamp replace counter Reset?" is displayed. Move the pointer to [Yes] and then press the **SELECT** button.

* Refer to owner's manual for further information.

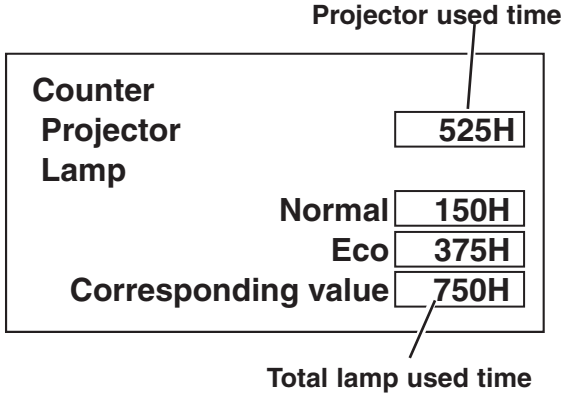
Recommendation

Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and short lamp life. We recommend cleaning the air filter after the projection lamp is replaced.
Refer to "Air Filter Cleaning".

How to check Lamp used time

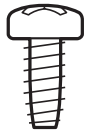
The LAMP REPLACE indicator will light yellow when the total lamp used time (Corresponding value) reaches 5000 hours. This is to indicate that lamp replacement is required.
The total lamp used time is calculated by using the below expression,
Total lamp used time = **T***eco* + **T***normal* x 2.5
T*eco*: used time in the Eco mode
T*normal* : used time in the Normal mode
You can check the lamp used time following to the below procedure.

1 Press and hold the **ON-OFF** button on the remote control for more than 20 seconds.
2 The projector used time and lamp used time will be displayed on the screen briefly as follows.

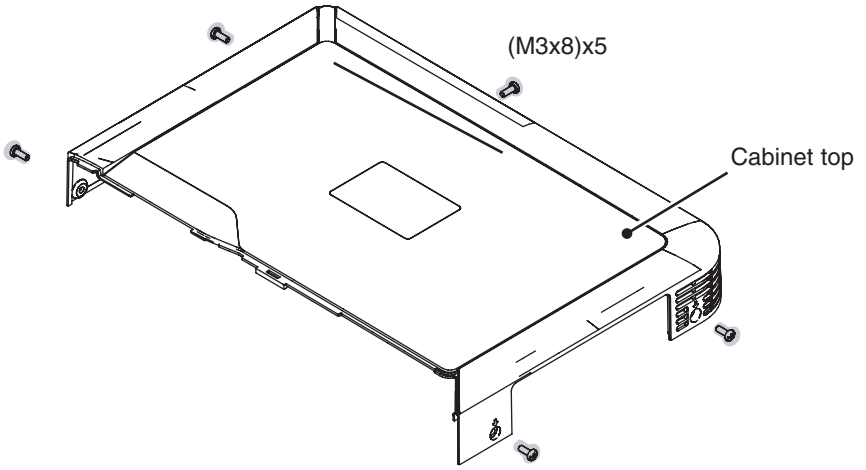


Mechanical Disassembly

Mechanical disassembly should be made following procedures in numerical order.
Following steps show the basic procedures, therefore unnecessary step may be ignored.
Caution:
The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

Screws Expression (Type Diameter x Length) mm	
T type	M Type
	

1 Cabinet Top & Fans (FN901, FN902) removal



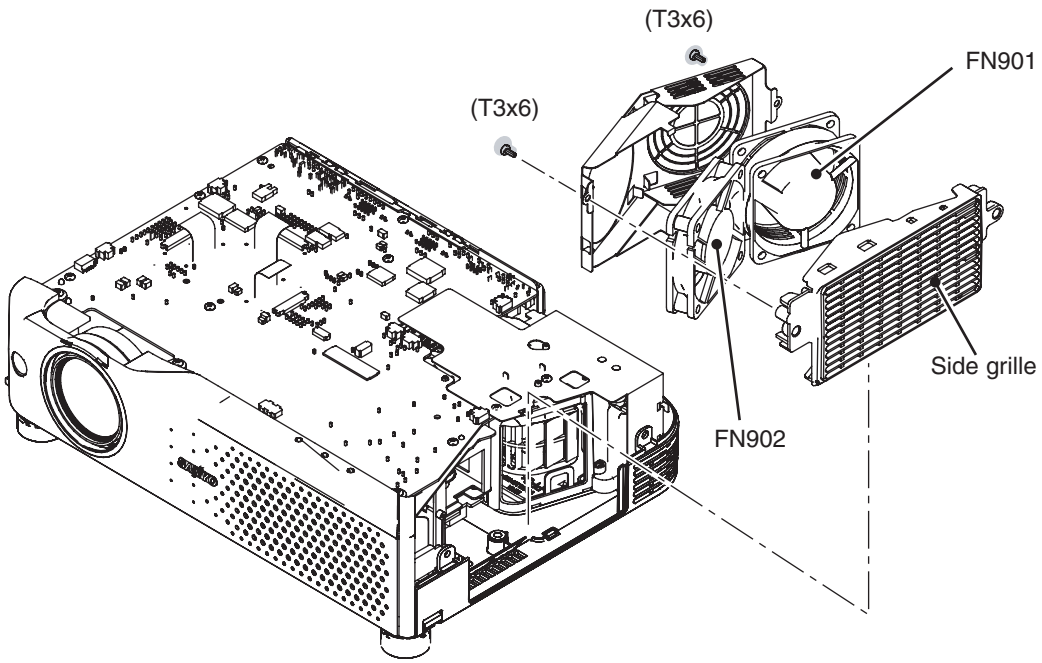


Fig.1

2 Cabinet Front, R/C Board, Main Board, Fans(FN905,FN906), SP901 removal

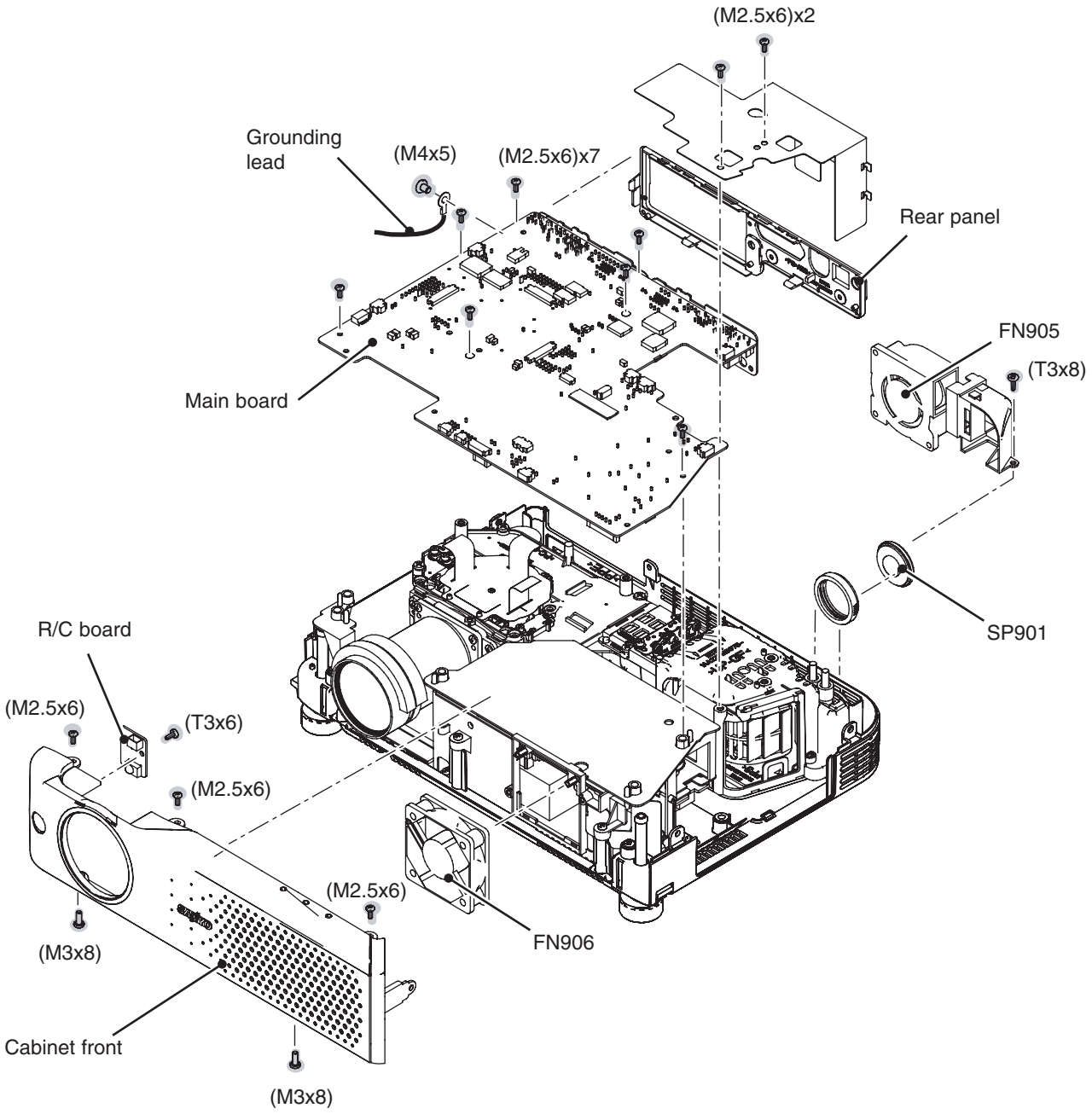


Fig.2

3 Power, Sub-Power, Line Filter Board, Ballast Board, Thermal Sw(SW902) removal

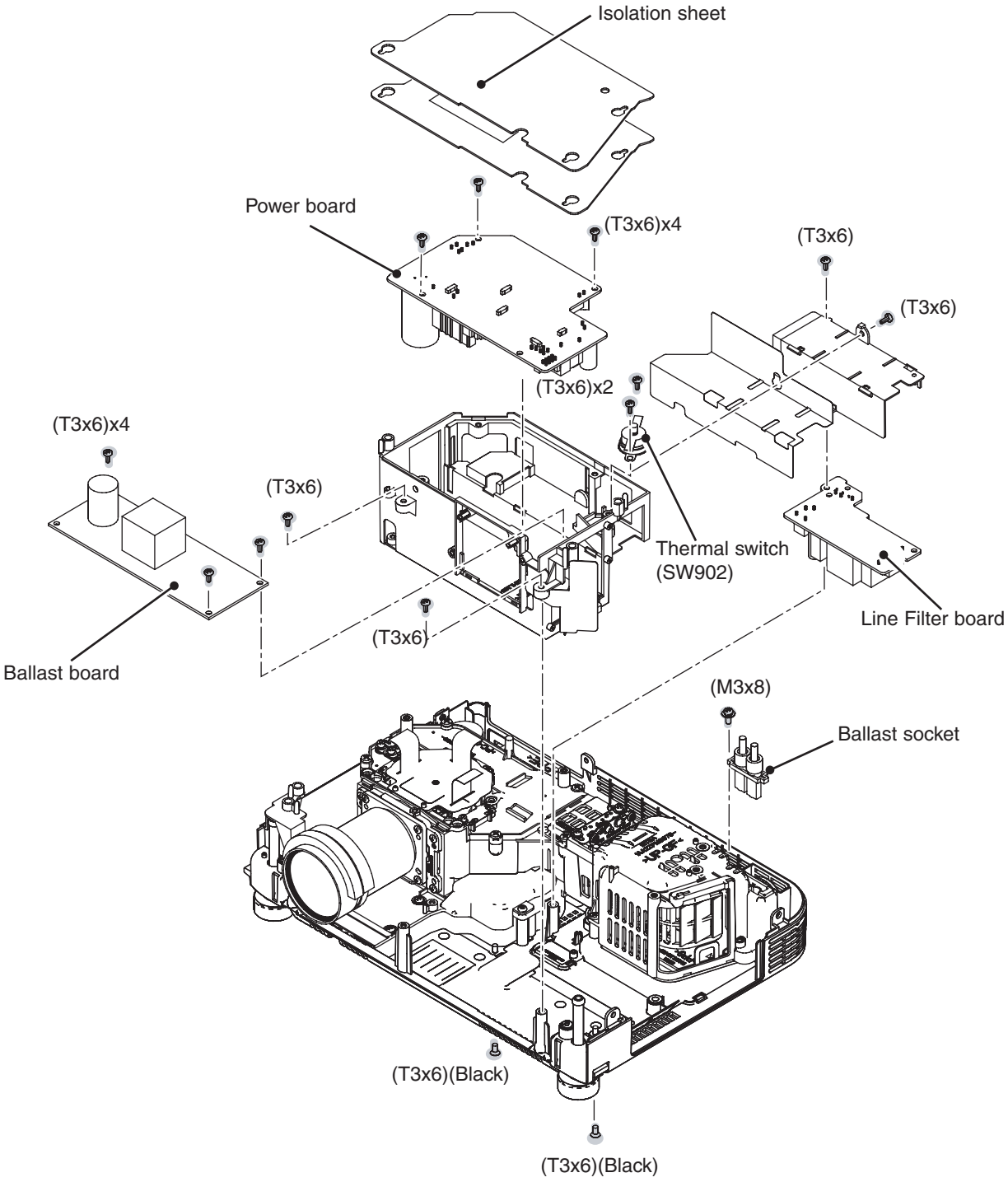


Fig.3

4 Optical Unit, Sub-Power Board, Fans(FN903, FN904), Noise Filter removal

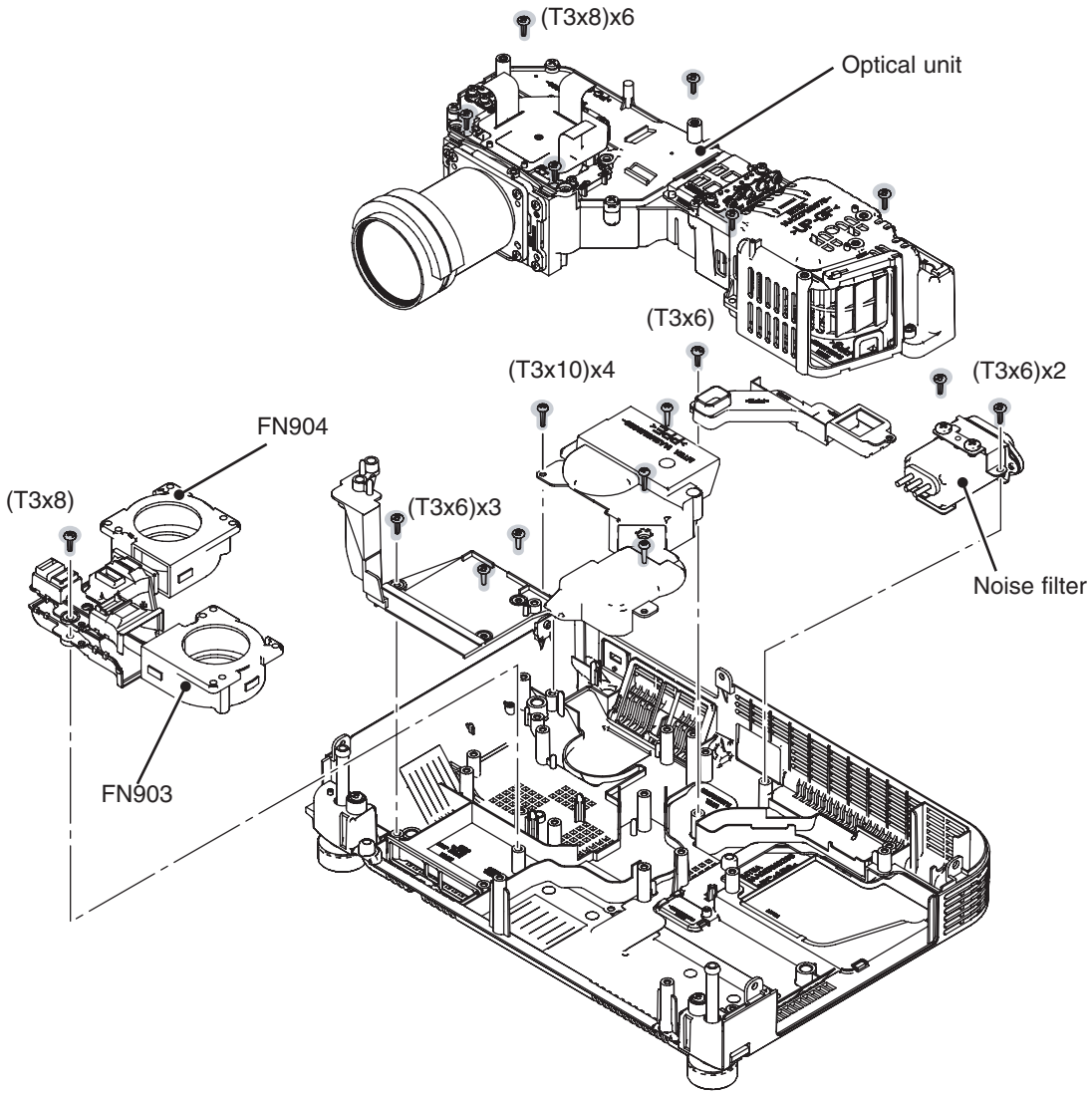


Fig.4

5 Alerm-A and Alerm-B board removal

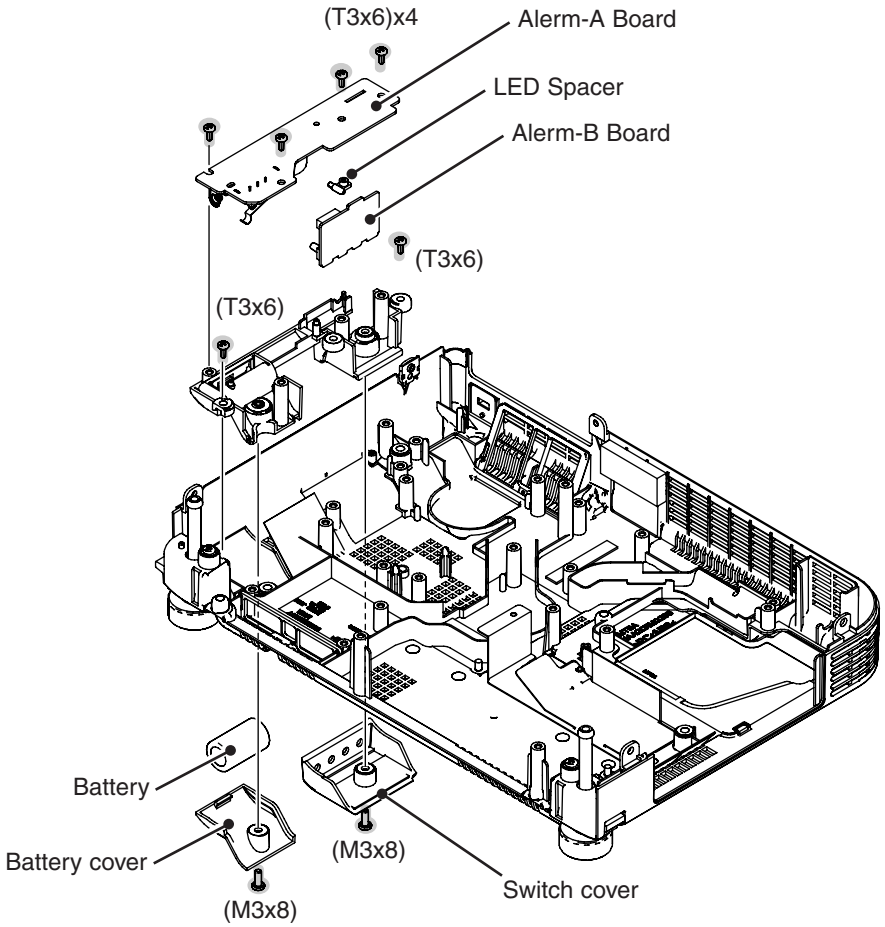


Fig.5

Optical Parts Disassembly

Before taking this procedure, remove Cabinet Top , Cabinet Front and Main Board following to the “Mechanical Disassembly”.
Disassembly requires a 2.0mm hex wrench.

1 Projection lens removal

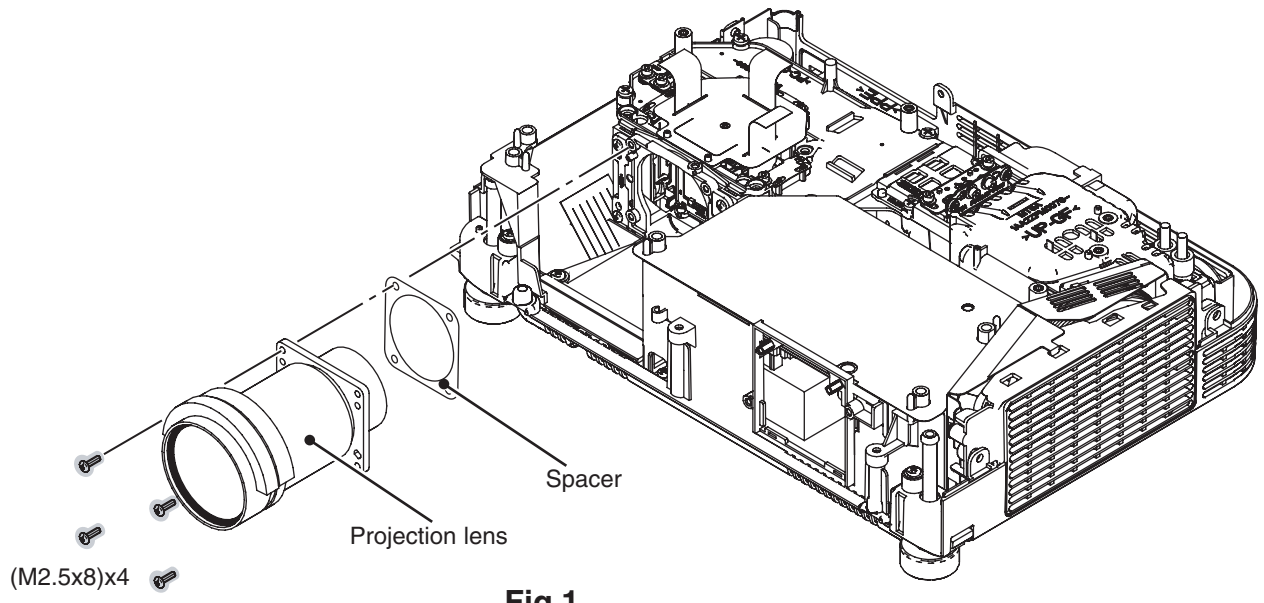


Fig.1

2 Integrator lens-in disassembly

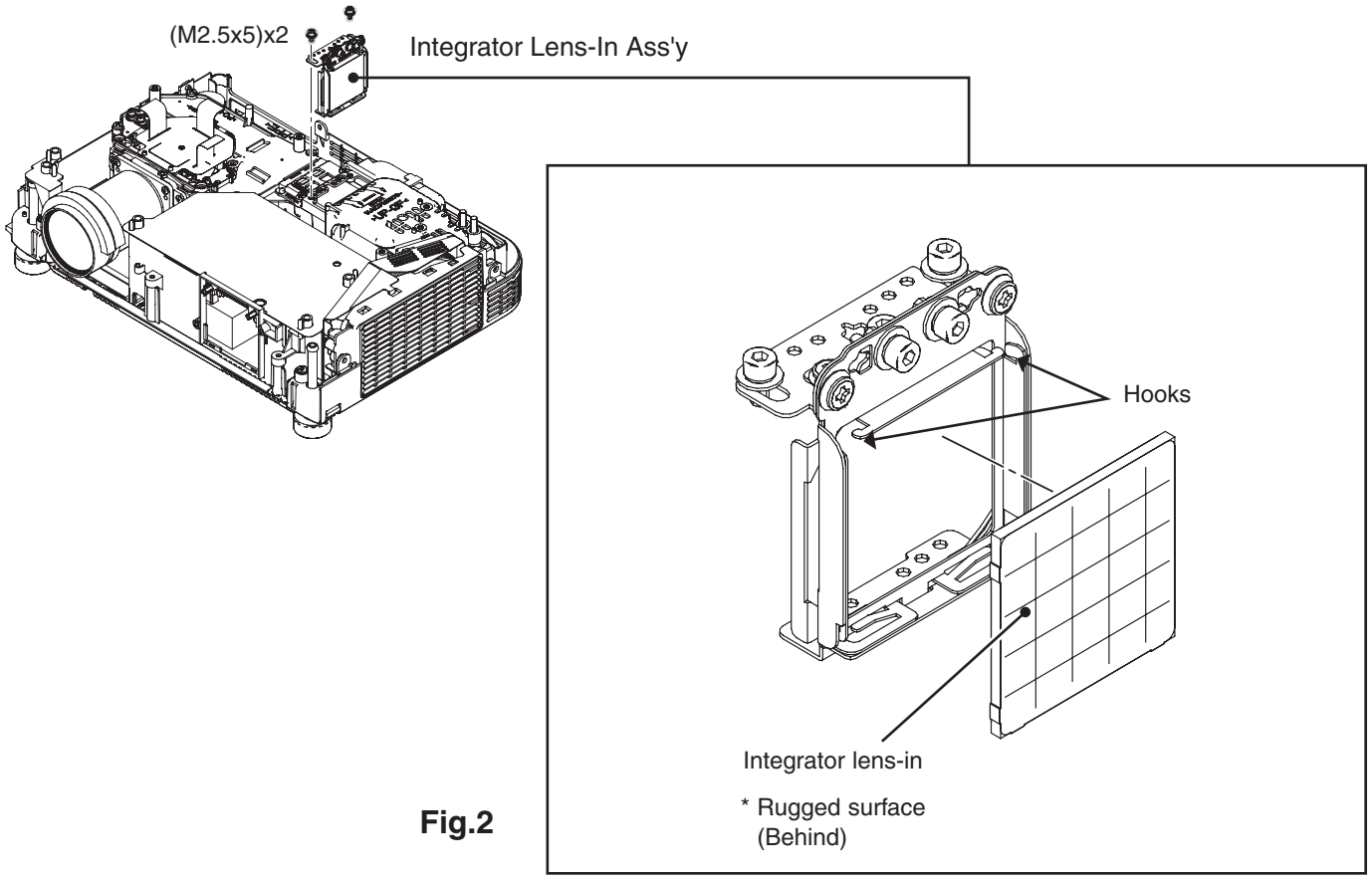


Fig.2

3 Relay lens disassembly

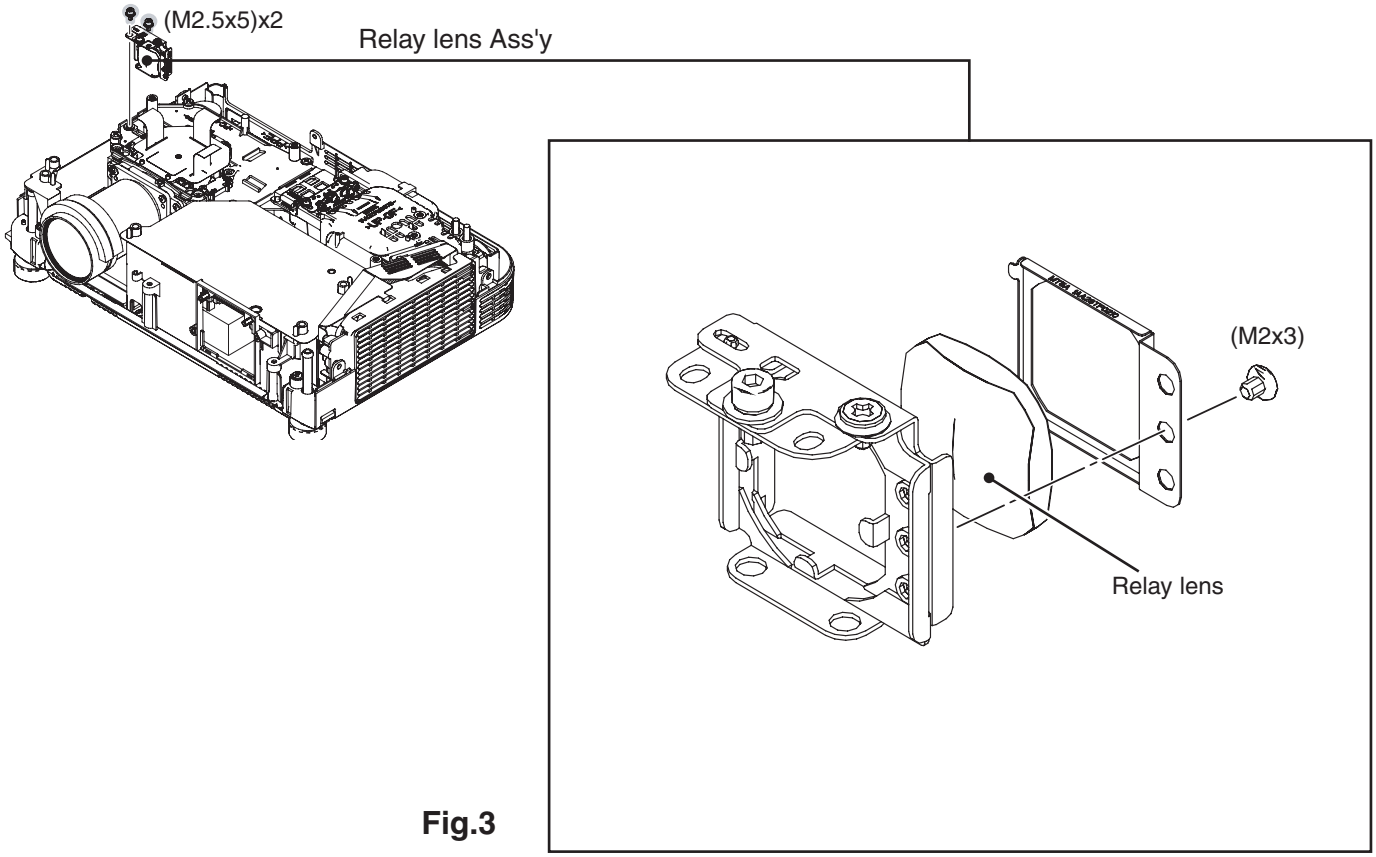


Fig.3

4 Polarized glass-in disassembly

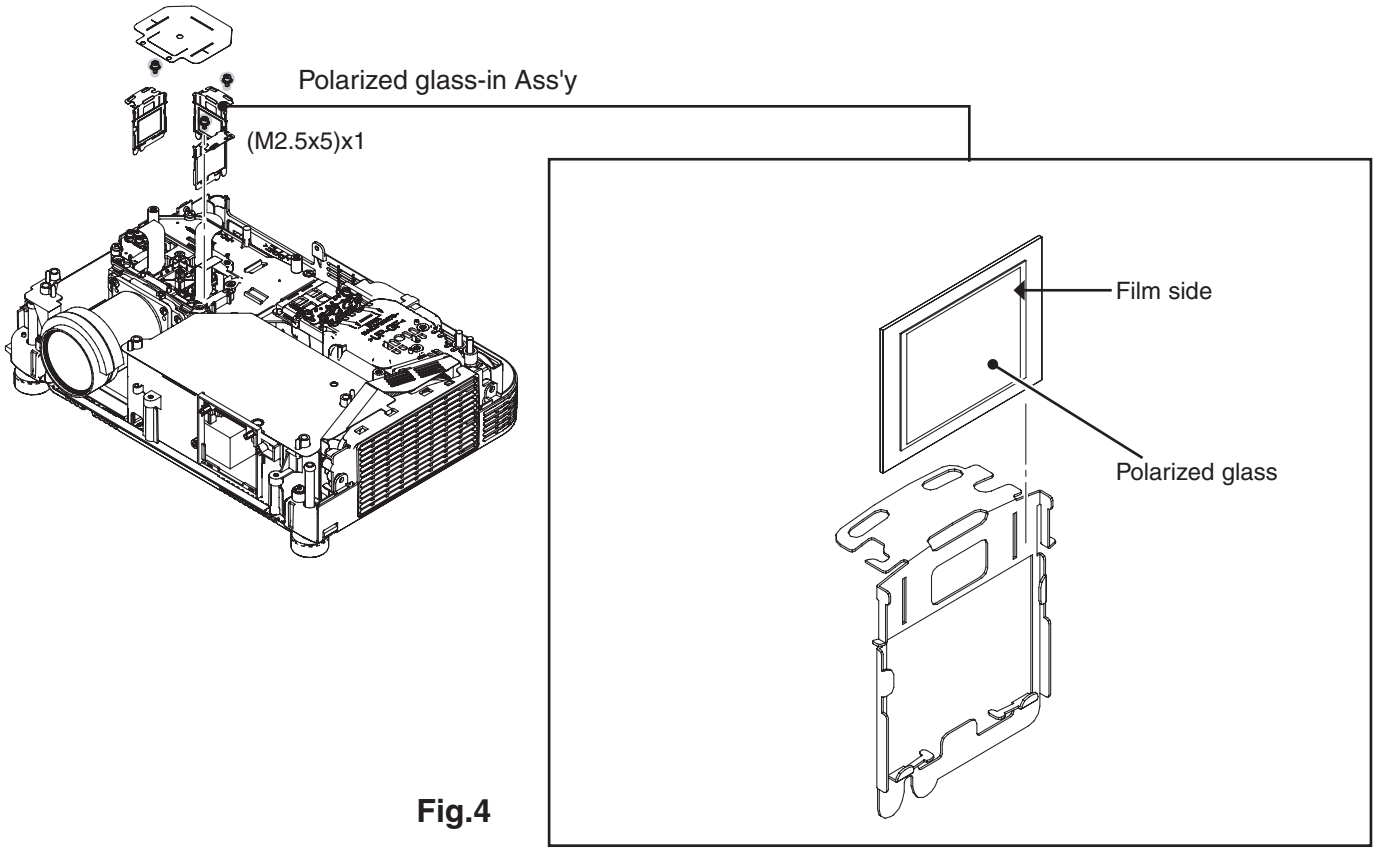


Fig.4

5 LCD Panel/Prism Ass'y removal

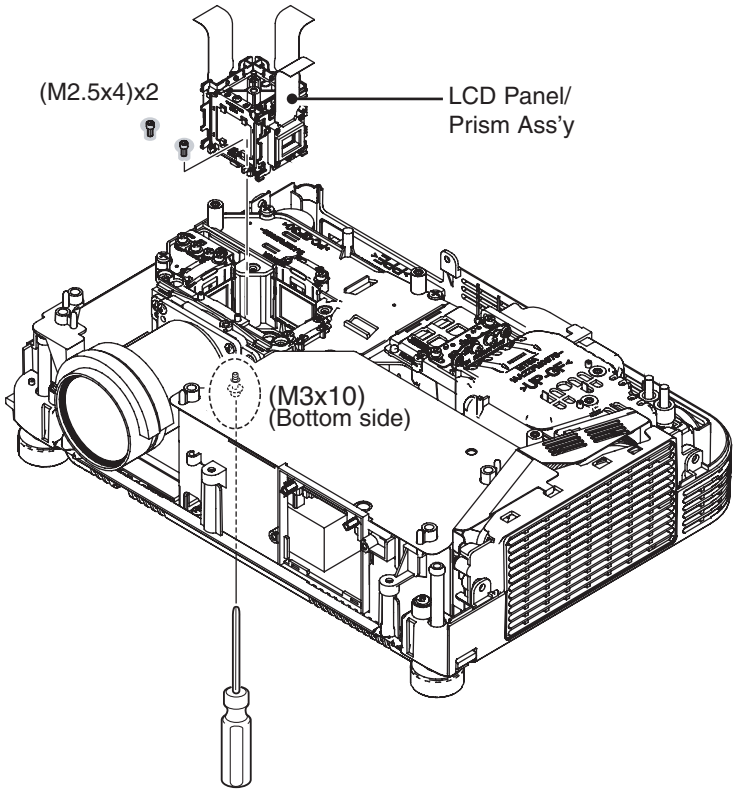


Fig.5

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following points.

- Check that there is no color shading at the top, bottom, left or right of the screen. If there is, try to remove the shading following to the chapter "Optical Adjustment".
- Check the white balance. If it needs the adjustment, adjust the white balance following to the "White Balance Adjustment" , "Gamma Adjustment" and "Common Centre Adjustment" in the chapter "Electrical Adjustment".
- Check the white uniformity on the screen.
  If you find the color shading at the some part of the screen, it needs to take the color shading adjustment. This adjustment should be performed by a computer and it also requires a special software "Color Shading Correction". The software will be supplied separately and can be ordered as follows;

COLOR SHADING CORRECTION Ver. 4.00
Service Parts No. 645 075 9611

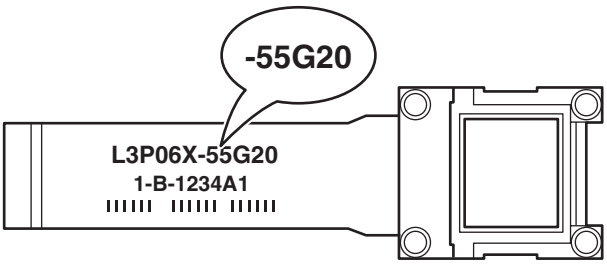
Panel Type Check

There are 2 types of LCD/Prism Ass'y for this model. Either L-Type or R-Type LCD /Prism Ass'y is used on the projector. Check which type of LCD/Prism Ass'y is used with the figure below.
When replacing the LCD/Prism Ass'y, you need to take "Panel Type Check and Setting" on the Electrical Adjustment for the replaced LCD/Prism Ass'y.
The gamma-characteristics is different between L-Type and R-Type LCD /Prism Ass'y.

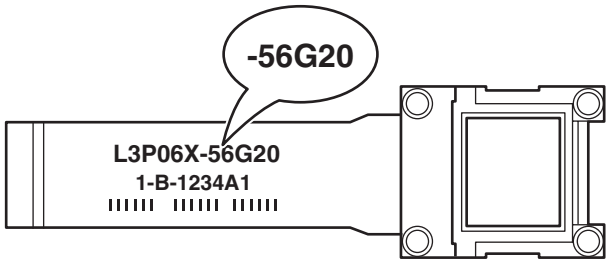
How to check the type of LCD/Prism Ass'y

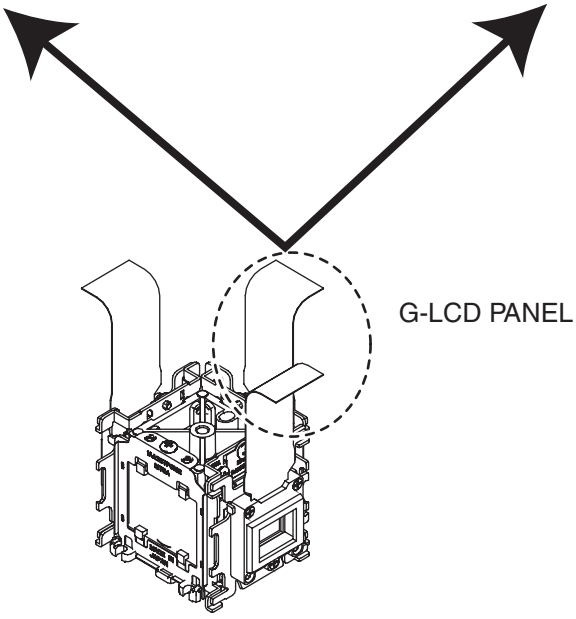
Check the printed number on the flat cable of the G-LCD Panel.

L-Type LCD/Prism Ass'y



R-Type LCD/Prism Ass'y





6 Polarized glass, Pre-polarized glass removal

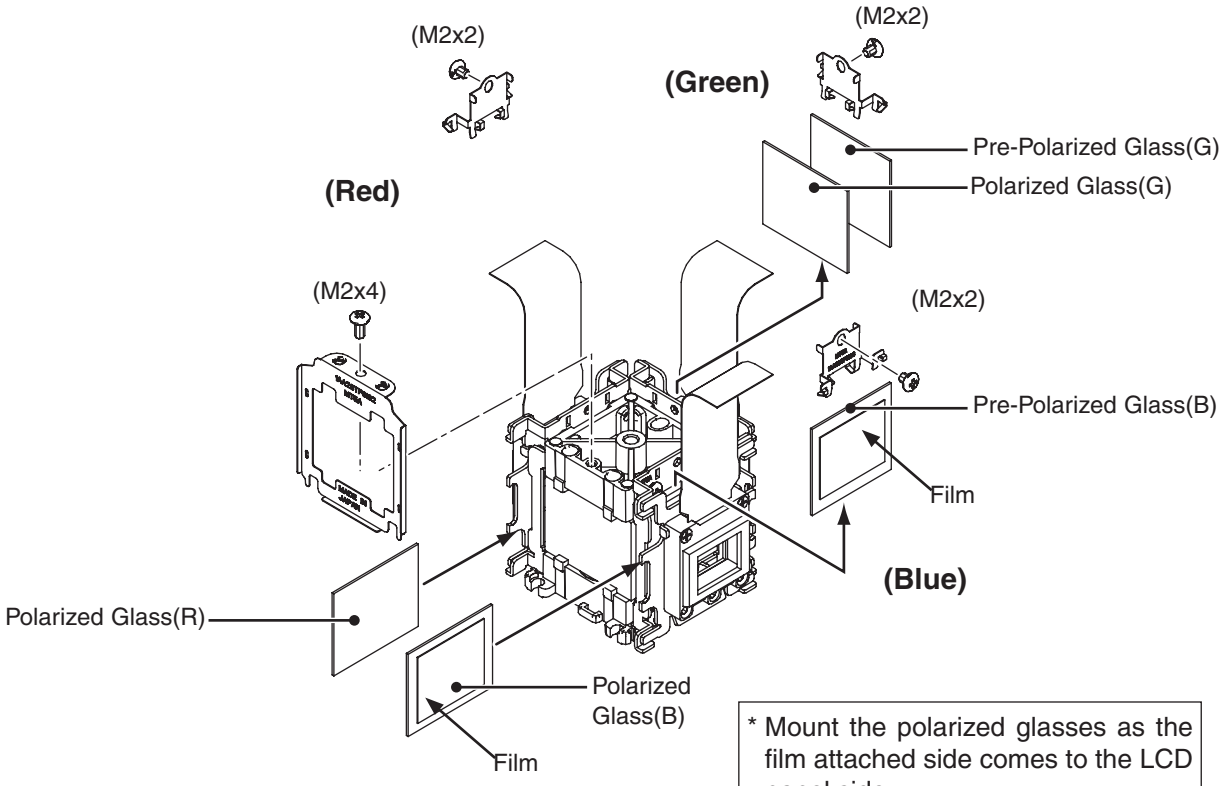


Fig.6

* Mount the polarized glasses as the film attached side comes to the LCD panel side.

7 Optical Unit Top removal

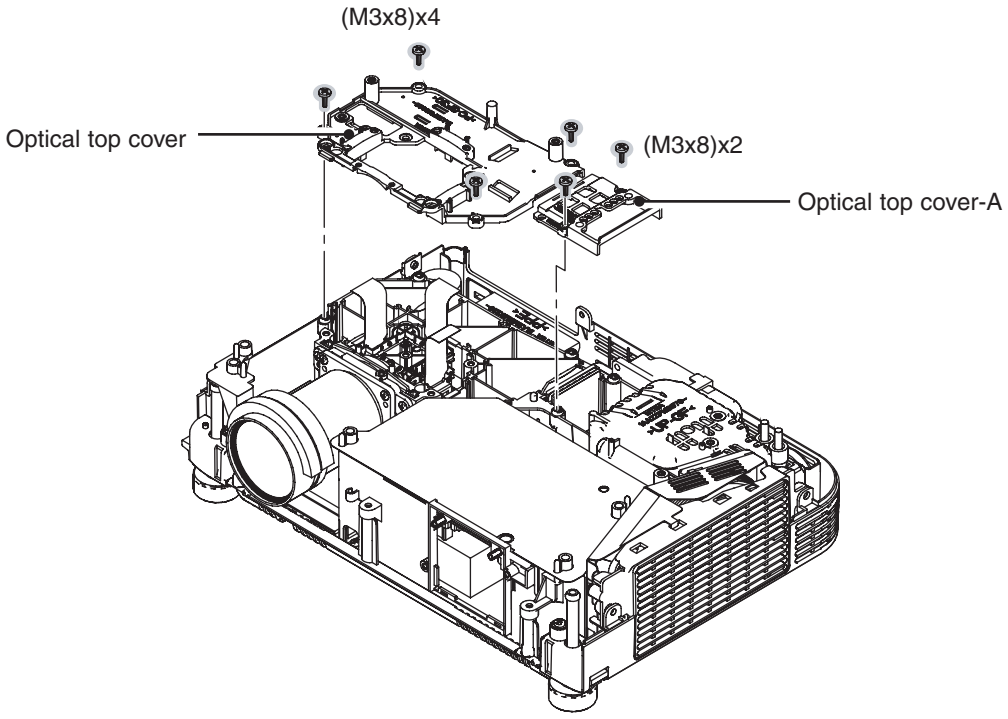


Fig.7

8 Locations and Directions

When mounting or assembling the optical parts in the optical unit, the parts must be mounted in the specified location and direction as shown in figure below.

No.	Parts Name
1	Integrator lens (OUT)
2	Prism beam splitter (PBS)
3	Condenser lens (OUT)
4	Dichroic mirror (B)
5	Dichroic mirror (G)
6	Condenser lens (G)
7	Mirror (R)
8	Condenser lens (R)
9	Condenser lens (B)
10	Mirror (B)

The arrows in the figure indicate the mount direction of the part for the replacement. Check the number on the arrows and mount each part according to its note;
A: The printed part no. comes to this side.
B: Rugged surface comes to this side.

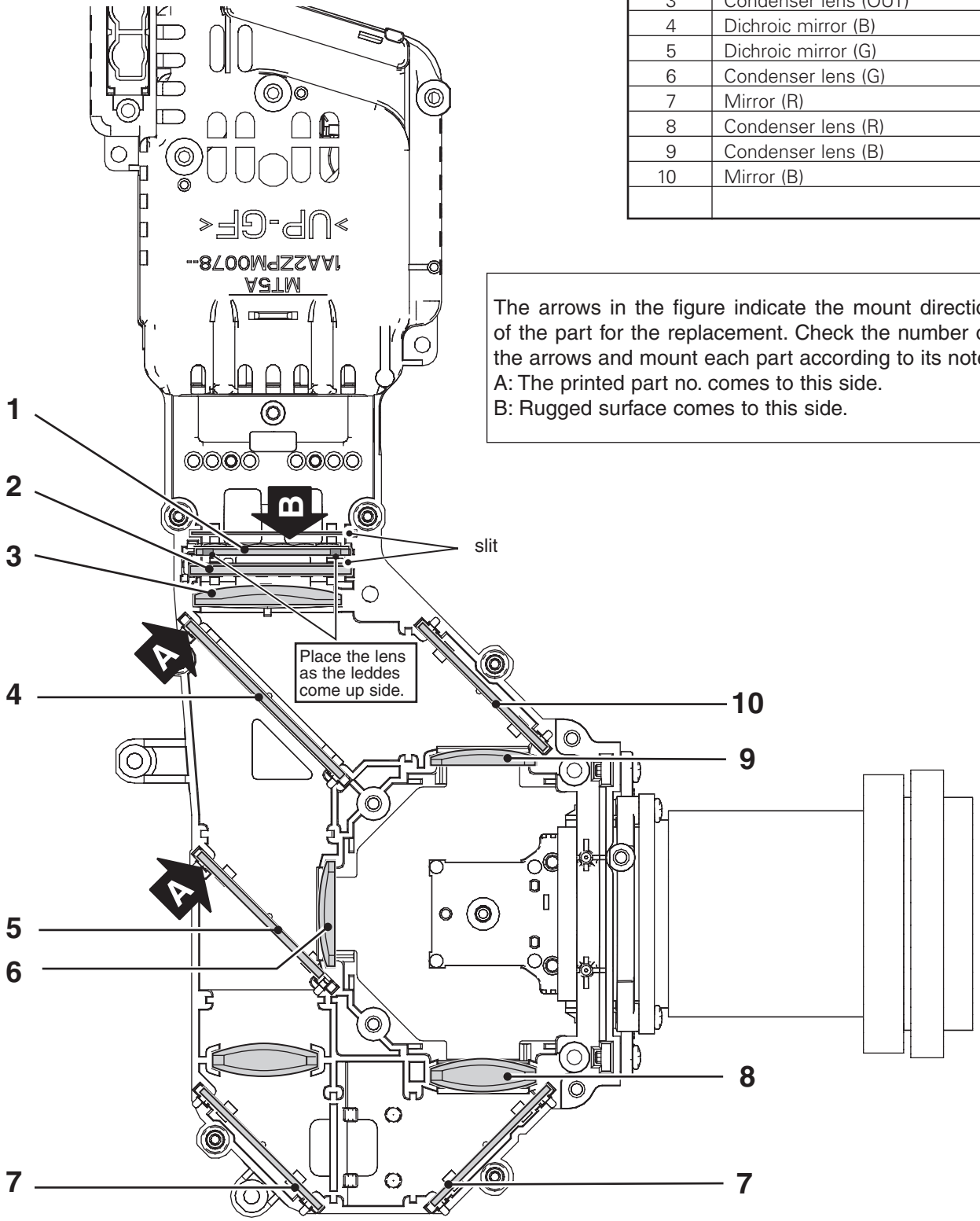


Fig.8

Adjustments

Turning On the Projector

If the PIN code is set on the projector, you cannot use the projector. The PIN code can be reset to the factory default setting (1234) according to the following procedure.

When you reset the PIN code, the Logo PIN code and key lock will be reset, as well.

1. Connect the AC power cord from the AC outlet. The projector is in the standby mode.
2. Press and hold the ◀ and ▶ **button** on the remote control at the same time for more than 20 seconds.
3. Turn the projector on with the **ON-OFF** button, enter the PIN code "1234" (the factory default setting).

Please refer to the owners manual for further information.

Adjustments after Parts Replacement

● : Adjustment necessary ❍ : Check necessary

		Disassembly / Replaced Parts							
		LCD/ Prism Ass'y	Integrator Lens (OUT)	Relay Lens (OUT)	Polarized glass			Power Board	Main Board
					R	G	B		
Optical Adjustments	Contrast Adjustment								
	R-Contrast adjustment				●				
	G-Contrast adjustment					●			
	B-Contrast adjustment						●		
	Integrator lens adjustment	❍	●						
	Relay lens-out adjustment	❍		●					
Electrical Adjustments	Panel type check and setting	●							●
	Fan control adjustment							●	●
	Pedestal adjustment [PC]								●
	Gain adjustment [PC]								●
	Pedestal adjustment [1080i]								●
	Gain adjustment [1080i]								●
	Gain adjustment [Video]								●
	Black reference adjustment								●
	Common center adjustment	●							●
	50% white adjustment [PC]	●							●
	White balance adjustment [PC]	❍							❍
	50% white adjustment [Video]	●							●
	White balance adjustment [Video]	❍							❍
	White uniformity adjustment	❍							❍

Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top following to the “Mechanical Disassembly”.
Adjustments require a 2.0mm hex wrench and a slot screwdriver. When you adjust Integrator lens or Relay lens adjustment, you need to disconnect FPC cables of LCD panels on the main board.
Optical adjustment requires a 2.0mm hex wrench and a slot screwdriver.
Note: Do not disconnect connectors on the main board, because the projector cannot turn on due to operate the power failure protection.

WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICEING

CAUTION: To prevent suffer of UV radiation, those adjustment must be completed within 25 minutes.

Contrast adjustment

[Before Adjustment]
- Input a 100% of black raster signal.

1 Loosen a screw **A** (**Fig.1-1/1-2**) on the polarized glass mounting base which you intend to adjust.
2 Turn the polarized glass mounting base as shown in **Fig.1-1** to obtain the darkest brightness on the screen.
3 Tighten the screw **A** to fix the polarized glass mounting base.

Repeat steps 1 to 3 for remaining polarized glasses.

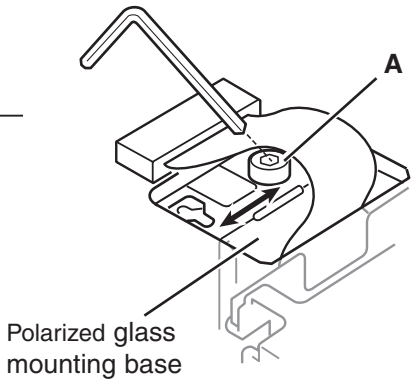


Fig.1-1

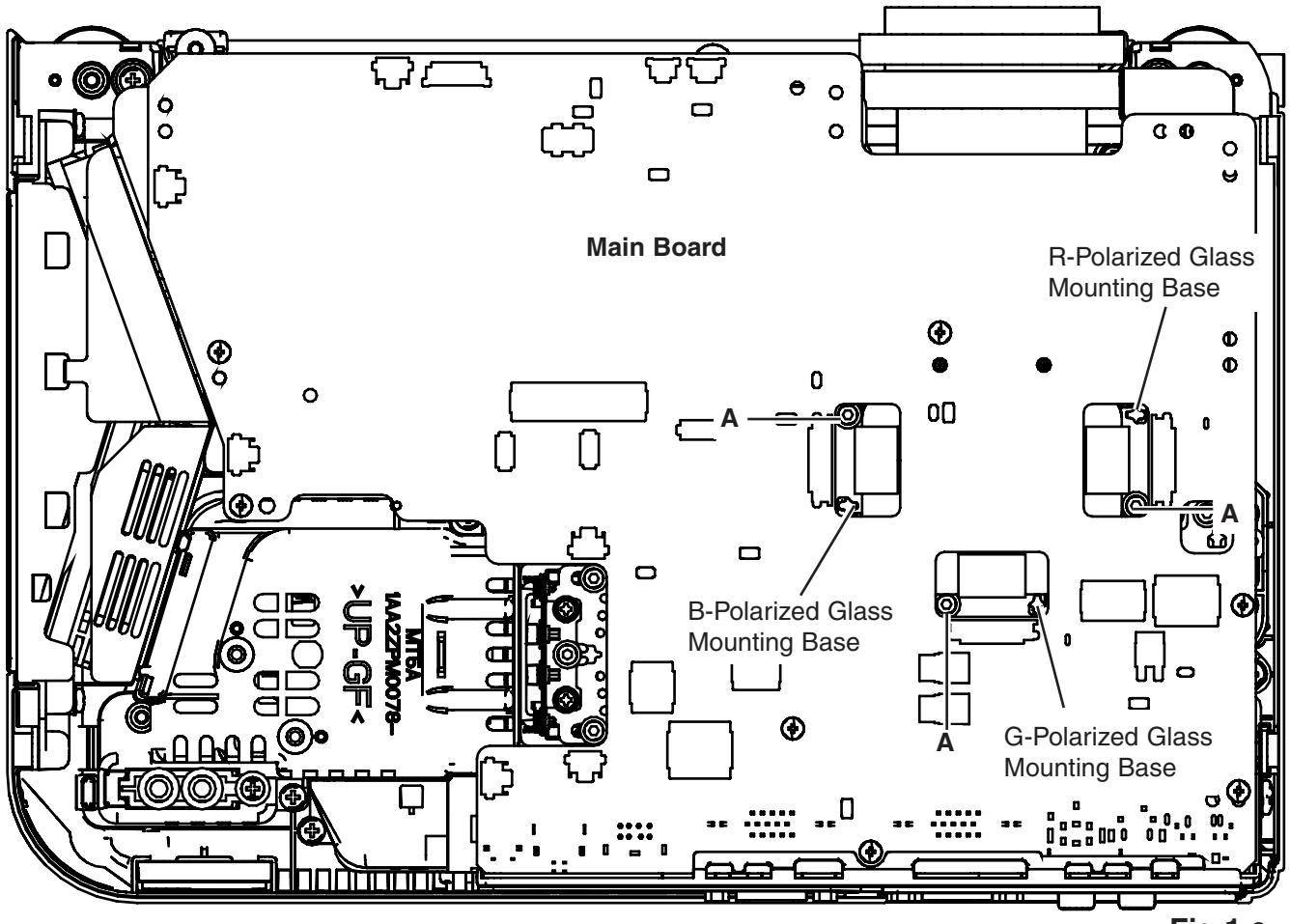
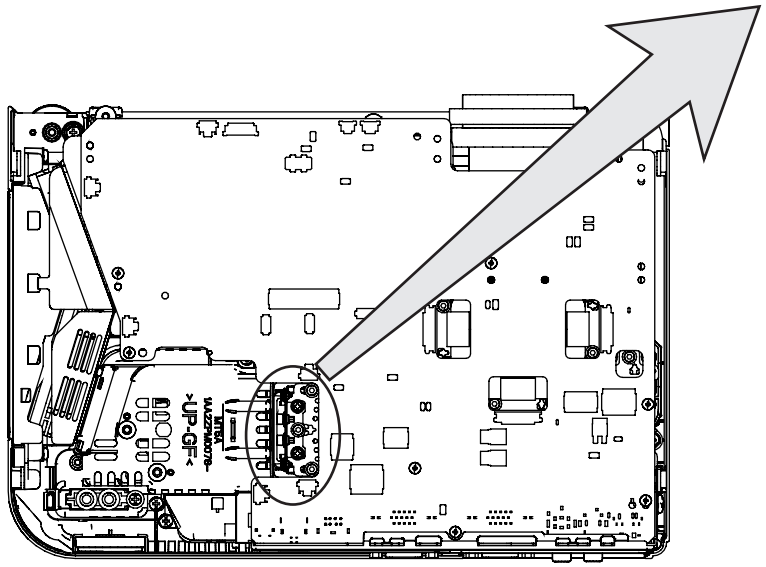


Fig.1-2

Integrator lens adjustment

1 Turn the projector on by a state of without FPC cables.
2 Project all of lights on the screen.
3 Adjust the adjustment base of integrator lens assy to make color uniformity in white.
   1) If the shading appears on the left or right of the screen as shown in **Fig.2-1**, loosen 1 screw **A** , and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
   2) If the shading appears on the top or bottom of the screen as shown in **Fig.2-2**, loosen 2 screws **C**, and adjust the slots **D** to make color uniformity in white by using a slot screwdriver
4 Tighten screws **A** and **C** to fix the Integrator lens unit.

Note:
The relay lens adjustment must be carried out after completing this adjustment.



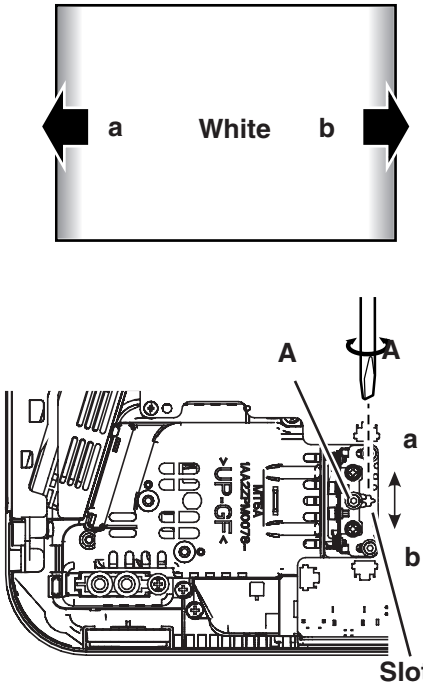


Fig.2-1
Moving of slot B

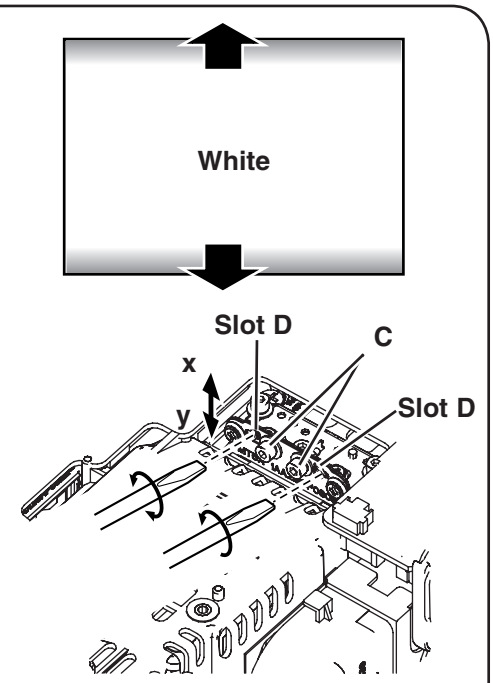
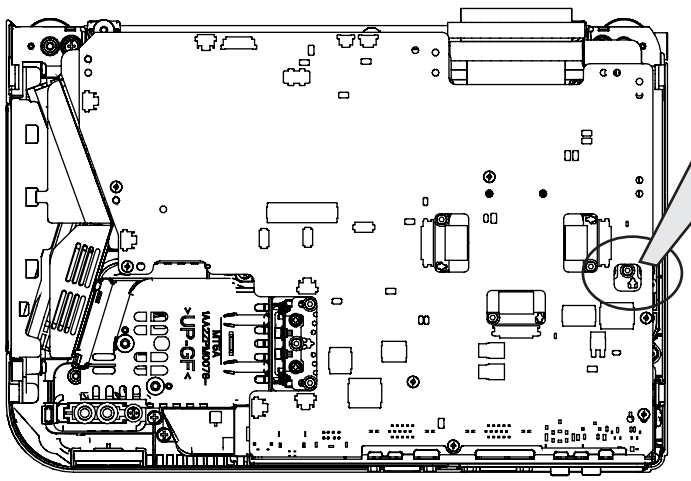


Fig.2-2
Moving of Slot D

Relay lens-Out adjustment

1 Turn the projector on by a state of without FPC cables.
2 Project all of lights on the screen.
3 Adjust the adjustment base of relay lens assy to make color uniformity in white.
If the shading appears on the left or right of the screen as shown in **Fig.3**, loosen 1 screw **A**, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
4 Tighten the screws **A** to fix the relay lens unit.



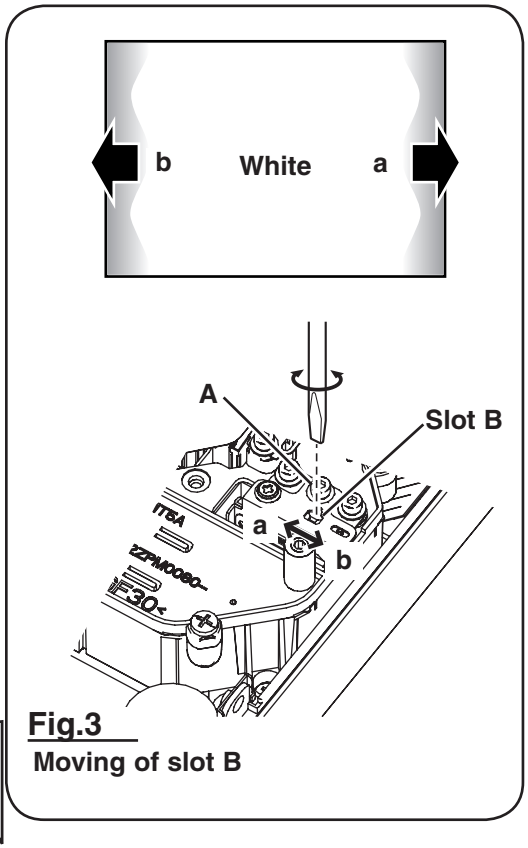


Fig.3
Moving of slot B

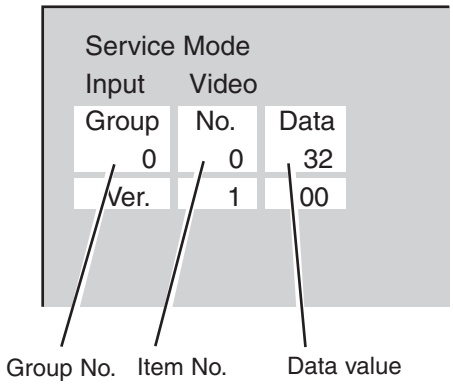
Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode
To enter the “Service Mode”, press and hold the **MENU button** on the remote control for more than 20 seconds. The service menu appears on the screen as follows.

To adjust service data
Select the adjustment group no. by pressing the **MENU button (increase)** or **KEYSTONE button (decrease)**, and select the adjustment item no. by pressing the pointer ▲ or ▼ **button** on the remote control, and change the data value by pressing the ◀ or ▶ **button** on the remote control. Refer to the “Service Adjustment Data Table” for further description of adjustment group no., item no. and data value.

To exit the service mode
To exit the service mode, press the **ON-OFF button** on the remote control.



Memory IC (IC1371) Replacement

Memory IC on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.
If replaced, the re-adjustments are required following to the “Electrical Adjustments”.
The data of lamp replacement counter is stored in the Memory IC.
Please note that the lamp replace counter will be reset when the memory IC is replaced.
(Lamp replace counter cannot be set to the previous value.)

● **Caution to memory IC replacement**
When memory IC is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC as the mentioned on the service adjustment table. As these data are not the same data as factory shipped data, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.
Please note that in this case the lamp replace counter will be reset.

● **Caution of Main Board replacement (in the case memory IC is not defective)**
When the main board is replaced, memory IC should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.
In this case, the lamp replace counter can be kept the value as before.

Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety.

[Adjustment Condition]

● Input signal

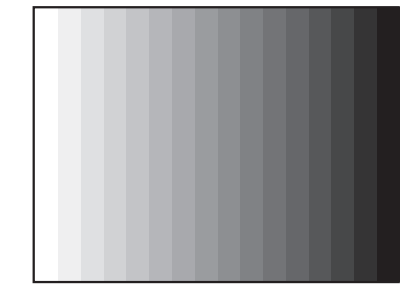
Video signal ..... 1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)

Computer signal..... 0.7Vp-p/75Ω terminated, 16 steps gray scale pattern

Component Video signal..... 0.7Vp-p/75Ω terminated, 16 steps gray scale (Component video signal with 480p, 575p, 720p or 1080i format)

● Picture control mode ..... "STANDARD" mode unless otherwise noted.

16 steps gray scale pattern



Note:

* Please refer to "Service Adjustment Menu Operation" for entering the service mode and adjusting the service data.

Output Voltage adjustment

After replacing the Power Board readjust the Output voltage adjustment as follows.

1. Connect a digital voltmeter to pins 1 (+) and 3 (-) of **K6D**.
2. Adjust the voltage by using **VR611** as following.

AC Input	Reading
230V	380V ±2V

Caution:

Be sure to connect the lamp when taking this adjustment.

* This adjustment is not required even if the power board is replaced because this adjustment is carried out before parts shipment.

1 Panel Type Check and Setting

1. Enter the service mode.
2. Panel Type Check

   Select group no. "**290**", item no. "**0**". Check the data value as follows;

   Data value: 0 For L-Type of LCD Panel

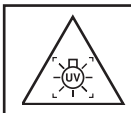
   Data value: 20 For R-Type of LCD panel
3. Panel Type Setting

   Select group no. "**290**", item no. "**1**" and change data value from 10 to 0 or 20 depending on your LCD Panel type. When the data value reaches 0 or 20, it returns to 10 quickly. The gamma-characteristics changes according to your selection.

* Refer to the item "LCD Panel/Prism Ass'y removal" for the panel type check.

2 Fan Control adjustment

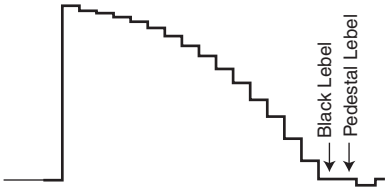
1. Set the lamp mode to "Normal" and then enter the service mode.
2. Connect a digital voltmeter to test point "**TPFANA**" (+) and chassis ground (-). Select group no. "**111**", item no. "**94**" and change data value to adjust voltage to be **5.2** ±0.1V.
3. Connect a digital voltmeter to test point "**TPFANB**" (+) and chassis ground (-). Select item no. "**96**" and change data value to adjust voltage to be **5.2** ±0.1V.



WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICEING

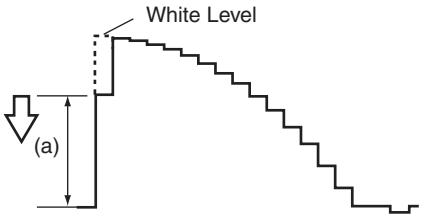
3 Pedestal adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**0**" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "**TPR1**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "**TPB1**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust the pedestal level and black level to be the same level.



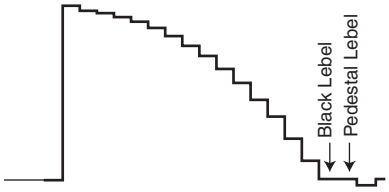
4 Gain adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**3**" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "**TPR1**" (+) and chassis ground (-).
6. Select item no. "**4**" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "**TPB1**" (+) and chassis ground (-).
8. Select item no. "**5**" and adjust the amplitude "a" to be minimum by changing the Data value.



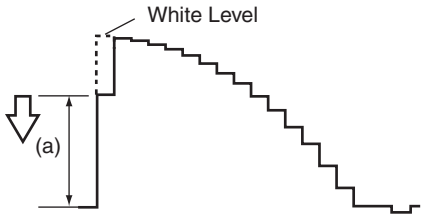
5 Pedestal adjustment [1080i]

1. Receive the 16-step grey scale component signal with **Video [Component1080i]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**0**", item no. "**0**" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "**TPR1**" (+) and chassis ground (-).
6. Select group no. "**0**", item no. "**1**" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "**TPB1**" (+) and chassis ground (-).
8. Select group no. "**0**", item no. "**2**" and change data value to adjust the pedestal level and black level to be the same level.



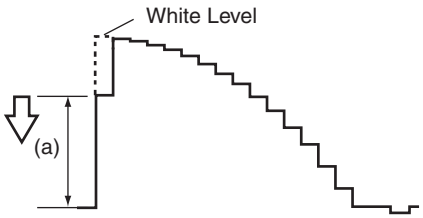
6 Gain adjustment [1080i]

1. Receive the 16-step grey scale component signal with **Video [Component1080i]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**9**", item no. "**0**" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "**TPR1**" (+) and chassis ground (-).
6. Select item no. "**1**" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "**TPB1**" (+) and chassis ground (-).
8. Select item no. "**2**" and adjust the amplitude "a" to be minimum by changing the Data value.



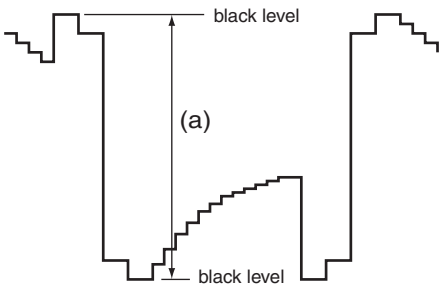
7 Gain adjustment [Video]

1. Receive the 16-step grey scale composite signal with **Video [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**9**", item no. "**0**" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "**TPR1**" (+) and chassis ground (-).
6. Select item no. "**1**" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "**TPB1**" (+) and chassis ground (-).
8. Select item no. "**2**" and adjust the amplitude "a" to be minimum by changing the Data value.



8 Black Reference adjustment

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**9**", item no. "**124**" and change data value to adjust amplitude "a" to be **10.0** ±0.1V.
5. Connect an oscilloscope to test point "**TPR1**" (+) and chassis ground (-).
6. Select item no. "**125**" and change data value to adjust amplitude "a" to be **10.0** ±0.1V.
7. Connect an oscilloscope to test point "**TPB1**" (+) and chassis ground (-).
8. Select item no. "**126**" and change data value to adjust amplitude "a" to be **9.0** ±0.1V.

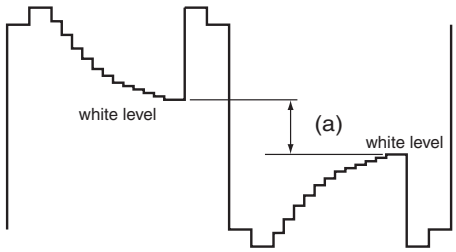


9 Common Center adjustment

1. Receive the 1 line black/white pattern computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Project only green light component to the screen.
4. Select group no. "**9**", item no. "**127**" and change data value to obtain the minimum flicker on the screen.
5. Project only red light component to the screen.
6. Select item no. "**128**" and change data value to obtain the minimum flicker on the screen.
7. Project only blue light component to the screen.
8. Select item no. "**129** and change data value to obtain the minimum flicker on the screen.

10 50% White adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**9**", item no. "**6**" and change data value to adjust amplitude "a" to be **1.6** ±0.1V.



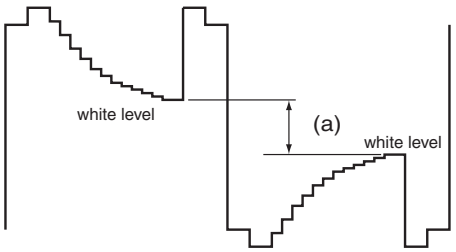
11 White Balance adjustment [PC]

1. Receive the 16-step gray scale computer signal with **Computer2 [RGB]** mode.
2. Enter the service mode, select group no. "**9**" item no. "**7**" (Red) or "**8**" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

12 50% White adjustment [Video]

1. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TPG1**" (+) and chassis ground (-).
4. Select group no. "**9**", item no. "**6**" and change data value to adjust amplitude "a" to be **2.2** ±0.1V.



13 White Balance adjustment [Video]

1. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
2. Enter the service mode, select group no. "**9**" item no. "**7**" (Red) or "**8**" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

NOTE ON WHITE UNIFORMITY ADJUSTMENT

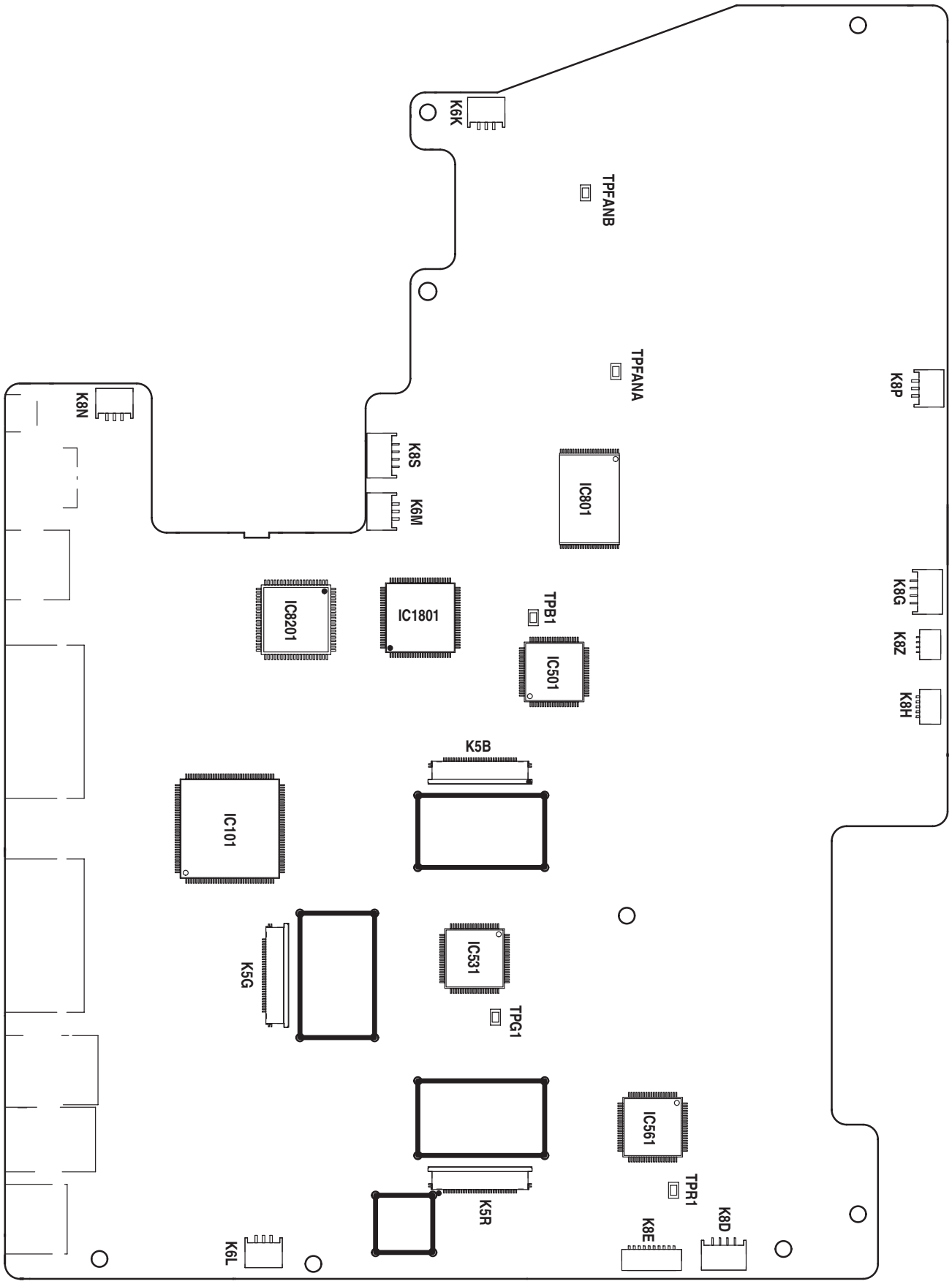
If you find the color shading on the screen, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately.

The software can be ordered as follows;

COLOR SHADING CORRECTION Ver. 4.00
Service Parts No. 645 075 9611

Test Points and Locations

MAIN BOARD



Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with "⁎" are required to readjust following to the "Electrical adjustments". Other items should be used with the initial data value.

Item No.		NAME	Device	XGA					Range	Description
				PC	Component			Video		
					HDTV	480p	480i	NTSC / PAL		
Group 0		AD9883								
	0	ADC G-OFFSET	AD9883	55	55					PC/AV 30KHz/AV 15KHz
	1	ADC R-OFFSET	AD9883	55	55					PC/AV 30KHz/AV 15KHz
	2	ADC B-OFFSET	AD9883	55	55					PC/AV 30KHz/AV 15KHz
	3	ADC G-GAIN	AD9883	70	128					PC/AV 30KHz/AV 15KHz
	4	ADC R-GAIN	AD9883	70	128					PC/AV 30KHz/AV 15KHz
	5	ADC B-GAIN	AD9883	70	128					PC/AV 30KHz/AV 15KHz
	6									
	10	VCO 0 Thresh MAX	AD9883	32	32			32		Maximum frequency to select VCO 0
	11	VCO 1 Thresh MAX	AD9883		58					Maximum frequency to select VCO 1
	12	VCO 2 Thresh MAX	AD9883		110					Maximum frequency to select VCO 2
	13									
	20	CPC 0 Thresh MAX (VCO 0)	AD9883		0					Maximum frequency to select CPC0 at VCO 0
	21	CPC 1 Thresh MAX (VCO 0)	AD9883		0					Maximum frequency to select CPC1 at VCO 0
	22	CPC 2 Thresh MAX (VCO 0)	AD9883		15					Maximum frequency to select CPC2 at VCO 0
	23	CPC 3 Thresh MAX (VCO 0)	AD9883		18					Maximum frequency to select CPC3 at VCO 0
	24	CPC 4 Thresh MAX (VCO 0)	AD9883		23					Maximum frequency to select CPC4 at VCO 0
	25	CPC 5 Thresh MAX (VCO 0)	AD9883		32					Maximum frequency to select CPC5 at VCO 0
	26	CPC 6 Thresh MAX (VCO 0)	AD9883		255					Maximum frequency to select CPC6 at VCO 0
	27	CPC 7 Thresh MAX (VCO 0)	AD9883		255					Maximum frequency to select CPC7 at VCO 0
	30	CPC 0 Thresh MAX (VCO 1)	AD9883		0					Maximum frequency to select CPC0 at VCO 1
	31	CPC 1 Thresh MAX (VCO 1)	AD9883		0					Maximum frequency to select CPC1 at VCO 1
	32	CPC 2 Thresh MAX (VCO 1)	AD9883		0					Maximum frequency to select CPC2 at VCO 1
	33	CPC 3 Thresh MAX (VCO 1)	AD9883		0					Maximum frequency to select CPC3 at VCO 1
	34	CPC 4 Thresh MAX (VCO 1)	AD9883		0					Maximum frequency to select CPC4 at VCO 1
	35	CPC 5 Thresh MAX (VCO 1)	AD9883		48					Maximum frequency to select CPC5 at VCO 1
	36	CPC 6 Thresh MAX (VCO 1)	AD9883		65					Maximum frequency to select CPC6 at VCO 1
	37									
	40	CPC 0 Thresh MAX (VCO 2)	AD9883		0					Maximum frequency to select CPC0 at VCO 2
	41	CPC 1 Thresh MAX (VCO 2)	AD9883		0					Maximum frequency to select CPC1 at VCO 2
	42	CPC 2 Thresh MAX (VCO 2)	AD9883		0					Maximum frequency to select CPC2 at VCO 2
	43	CPC 3 Thresh MAX (VCO 2)	AD9883		0					Maximum frequency to select CPC3 at VCO 2
	44	CPC 4 Thresh MAX (VCO 2)	AD9883		0					Maximum frequency to select CPC4 at VCO 2
	45	CPC 5 Thresh MAX (VCO 2)	AD9883		75					Maximum frequency to select CPC5 at VCO 2
	46	CPC 6 Thresh MAX (VCO 2)	AD9883		95					Maximum frequency to select CPC6 at VCO 2
	47									
	50	CPC 0 Thresh MAX (VCO 3)	AD9883		0					Maximum frequency to select CPC0 at VCO 3
	51	CPC 1 Thresh MAX (VCO 3)	AD9883		0					Maximum frequency to select CPC1 at VCO 3
	52	CPC 2 Thresh MAX (VCO 3)	AD9883		0					Maximum frequency to select CPC2 at VCO 3
	53	CPC 3 Thresh MAX (VCO 3)	AD9883		0					Maximum frequency to select CPC3 at VCO 3
	54	CPC 4 Thresh MAX (VCO 3)	AD9883		0					Maximum frequency to select CPC4 at VCO 3
	55	CPC 5 Thresh MAX (VCO 3)	AD9883		0					Maximum frequency to select CPC5 at VCO 3
	56	CPC 6 Thresh MAX (VCO 3)	AD9883		140					Maximum frequency to select CPC6 at VCO 3
	57									
	60	PRECOAST (PC)	AD9883		3					
	61	POSTCOAST(PC)	AD9883		3					
	62	PRECOAST (PC Video)	AD9883		10					
	63	POSTCOAST(PC Video)	AD9883		4					
	64	PRECOAST (Component)	AD9883		10					Maximum frequency to select CPC6 at VCO 3
	65	POSTCOAST(Component)	AD9883		4					Maximum frequency to select CPC7 at VCO 3
	70	FREQ OFFSET	AD9882		0					Offset at DCLK more than 82MHz for AD9882
Group 1		UPD64012								
	7	IMODE	uPD64012		0					
	8	RGB_MIX	uPD64012		0					
	9	AUTOCLR	uPD64012		1					
	10	SIGDETLV	uPD64012		1					
	11	SIGON	uPD64012		1					
	12	SIGOFF	uPD64012		0					
	13	TV50F	uPD64012		0					
	14	TV60F	uPD64012		0					
	15	SETINT	uPD64012		1					
	16	SETPRG	uPD64012		0					
	17	COLORM	uPD64012		0					
	18	KILOFFT	uPD64012		0					
	19	UNLINC	uPD64012		0					
	20	DETOUT	uPD64012		3					
	21	DETTIM	uPD64012		3					
	22	CLKVA	uPD64012		1					
	23	CLKKLL	uPD64012		40					
	24	CODDEN	uPD64012		0					

Electrical Adjustments

Item No.	NAME	Device	XGA					Range	Description
			PC	Component			Video		
				HDTV	480p	480i	NTSC / PAL		
25	CRDLY	uPD64012	1						
26	PHBDL	uPD64012	0						
27	PHRDL	uPD64012	0						
28	CBOFS	uPD64012	0						
29	CROFS	uPD64012	0						
30	FRCENY	uPD64012	0						
31	FRCENC	uPD64012	0						
32	DLYCTL	uPD64012	8						
33	OUTBITW	uPD64012	0						
34	CLKOINV	uPD64012	1						
35	RDOSEL	uPD64012	0						
36	SQCBCR	uPD64012	0						
37	ACTVH	uPD64012	128						
38	HPOSI	uPD64012	128						
39	HSPOS	uPD64012	132						
40	HSWID	uPD64012	64						
41	FSTAV	uPD64012	0						
42	VSPOS	uPD64012	64						
43	VSWID	uPD64012	2						
44	VBKFAL	uPD64012	260						
45	VBKRIS	uPD64012	16						
46	INBKENA	uPD64012	0						
47	YBLK	uPD64012	0						
48	SYNCSEL	uPD64012	1						
49	VDSEL	uPD64012	1						
50	HSPOL	uPD64012	1						
51	VSPOL	uPD64012	1						
52	FIELDPOL	uPD64012	1						
53	INHBKST	uPD64012	715						
54	INHBKEN	uPD64012	853						
55	INVBLKST	uPD64012	260						
56	INVBLKEN	uPD64012	16						
57	FLDTHR	uPD64012	0						
58	FILDIV	uPD64012	0						
59	TSRTCNV	uPD64012	1						
			VIDEO NTSC/PAL	S-VIDEO NTSC/PAL	YCBCR 480i/575i		SCART 480i/575i		
60	R_GAIN	uPD64012	22	22	22		10		
61	G_GAIN	uPD64012	22	22	22		17		
62	B_GAIN	uPD64012	22	22	22		10		
63	FLTSEL	uPD64012	0						
64	PEDIIRS2	uPD64012	0						
65	SBCNT2	uPD64012	32						
66	CBGAIN	uPD64012	32						
67	CRGAIN	uPD64012	32						
68	YGCAUTO	uPD64012	0						
69	YGCVAL	uPD64012	58						
70	YGCOFF	uPD64012	0						
71	YGCMVS	uPD64012	0						
72	YPGAINS	uPD64012	2						
73	YGCAVAL	uPD64012	9						
74	MAXIIRS	uPD64012	0						
75	PEDIIRS	uPD64012	0						
76	YGCMODE1	uPD64012	0						
77	YGCMODE2	uPD64012	0						
78	YGCIIRS	uPD64012	1						
79	YCSV	uPD64012	0						
80	YCOMA	uPD64012	2						
81	YCOMB	uPD64012	2						
82	YCSHY	uPD64012	0						
83	YCSHC	uPD64012	0						
84	COBPFOFF	uPD64012	0						
85	YCSCOF	uPD64012	4						
86	YCSSY	uPD64012	0						
87	VLTYPE	uPD64012	1						
88	YCSSC	uPD64012	0						
89	VAPONV	uPD64012	0						
90	VAPG	uPD64012	4						
91	VAPI	uPD64012	16						
92	PALCFIL	uPD64012	0						
93	YCSY2F	uPD64012	3						
94	TRF	uPD64012	0						
95	TRGAIN	uPD64012	0						
96	TRPAL	uPD64012	0						
97	APCGAIN	uPD64012	1						
98	ACCGAIN	uPD64012	1						
99	ACCLIM	uPD64012	8						
100	STNTSCM	uPD64012	0						
101	STPALD	uPD64012	0						

Electrical Adjustments

Item No.	NAME	Device	XGA						Range	Description
			PC	Component			Video			
				HDTV	480p	480i	NTSC	PAL		
			VIDEO	S-VIDEO	YCBCR		SCART			
			NTSC / PAL	NSTC / PAL	480i / 575i		480i / 575i			
102	SBCNT	uPD64012	109 / 111	106 / 108	119 / 118		118 / 118			
103	SBCLRU	uPD64012	128	128	128		141			
104	SBCLRV	uPD64012	128	128	128		141			
105	YCONR	uPD64012	0							
106	CCONR	uPD64012	0							
107	YCORB	uPD64012	0							
108	YCOREN	uPD64012	1							
109	YCORH	uPD64012	0							
110	CCORB	uPD64012	0							
111	CCOREN	uPD64012	0							
112	LTIGAIN	uPD64012	0							
113	CTIGAIN	uPD64012	0							
114	LTITAP	uPD64012	2							
115	LTICORE	uPD64012	3							
116	CTITAP	uPD64012	2							
117	CTICORE	uPD64012	3							
118	SHPGAIN	uPD64012	176							
119	SHPCHAR	uPD64012	2							
120	SHPCORE	uPD64012	0							
121	BRIGHT	uPD64012	512							
122	OFRY	uPD64012	32							
123	COLORG	uPD64012	128							
124	HUE	uPD64012	128							
125	CONT	uPD64012	128							
126	APLWID	uPD64012	0							
127	APLCOE	uPD64012	5							
128	DCREGAIN	uPD64012	8							
129	BLENGAIN	uPD64012	16							
130	ABLENST	uPD64012	0							
131	BLEXST	uPD64012	0							
132	GAMGAIN	uPD64012	0							
133	AGAMGAIN	uPD64012	0							
134	GAMST	uPD64012	255							
135	BLENCTL	uPD64012	0							
136	YGACTL	uPD64012	0							
137	ACLSEN	uPD64012	0							
138	ACLST	uPD64012	255							
139	YVBCTL	uPD64012	1							
140	CRLPF	uPD64012	1							
141	CBLPF	uPD64012	1							
142	KILLV	uPD64012	8							
143	KILLVCTL	uPD64012	9							
144	VLIM	uPD64012	0							
145	VDCOR	uPD64012	0							
146	LPFTHR	uPD64012	SCART: 1 COMPOSET/SVIDEO:0							
147	ADCLK	uPD64012	SCART: 2 COMOSITE/SVIDEO:2							
Group 9	PANEL CONTROL									
0	G-SubGain	L3E7072K0A	512	640			525			When adjusting G, the value of R and B changes together
1	R-SubGain	L3E7072K0A	512	640			525			
2	B-SubGain	L3E7072K0A	512	640			525			
3	G-SubBright	L3E7072K0A	0							
4	R-SubBright	L3E7072K0A	0							
5	B-SubBright	L3E7072K0A	0							
6	G-GammaShift	L3E7072K0A	512	512						When adjusting G, the value of R and B changes together DVI links PC, HDCP links AV
7	R-GammaShift	L3E7072K0A	512	512						
8	B-GammaShift	L3E7072K0A	512	512						
9	R_ReferH(NRS Level)	L3E7072K0A	Normal:650/Rear:650							When adjusting G, the value of R and B changes together
10	G_ReferH(NRS Level)	L3E7072K0A	Normal:650/Rear:650							
11	B_ReferH(NRS Level)	L3E7072K0A	Normal:650/Rear:650							
12	R_ReferL(NRS Level)	L3E7072K0A	Normal:250/Rear:250							When adjusting G, the value of R and B changes together
13	G_ReferL(NRS Level)	L3E7072K0A	Normal:250/Rear:250							
14	B_ReferL(NRS Level)	L3E7072K0A	Normal:250/Rear:250							
15	DXOUTR (H-Screen Position)	L3E7072K0A	462							Auto Ghost adjustment
16	DXOUTG (H-Screen Position)	L3E7072K0A	462							Auto Ghost adjustment
17	DXOUTB (H-Screen Position)	L3E7072K0A	462							Auto Ghost adjustment
18	ENBX*R Phase	L3E7072K0A	4							
19	ENBX*G Phase	L3E7072K0A	4							
20	ENBX*B Phase	L3E7072K0A	4							
21	ENBX*(RGB) Width	L3E7072K0A	3							
22	h_change_pos(CLY H-Position)	L3E7072K0A	15							
23	DYOUTR (V-Screen Position)	L3E7072K0A	1							
24	DYOUTG (V-Screen Position)	L3E7072K0A	1							
25	DYOUTB (V-Screen Position)	L3E7072K0A	1							
26	dxout_base_pos	L3E7072K0A	1							Auto Ghost adjustment
27	sh_base_pos_b(SH Position)	L3E7072K0A	546							
28	NRG Position	L3E7072K0A	54							

Electrical Adjustments

Item No.		NAME	Device	XGA					Range	Description
				PC	Component			Video		
					HDTV	480p	480i	NTSC / PAL		
	29	NRG Width	L3E7072K0A	116						
	30	OSD (Insert Position)	L3E7072K0A	2						
	31	OSD (pattern Selection)	L3E7072K0A	0						
	32	GAMMA(ON/OFF)	L3E7072K0A	1						
	33	ref_gate_pos(NRS Position)	L3E7072K0A	40						
	34	ref_gate_dur(NRS Width)	L3E7072K0A	174						
	35	gray_on	L3E7072K0A	7						
	36	Other Correction	L3E7072K0A	0						
	37	Whole Area Crosstalk Corr. EN	L3E7072K0A	0						
	38	DC Offset Corr. for V-line Shade E	L3E7072K0A	0						
	39	Offset Corr. For V-line Shade EN	L3E7072K0A	Normal:0/Rear:1						
	40	V-Line Shade BLSP_EN	L3E7072K0A	Normal:1/Rear:1						
	41	Sequential Ghost Correction EN	L3E7072K0A	Normal:1/Rear:1						
	42	Block Ghost Correction EN	L3E7072K0A	0						
	43	Reverse Ghost Correction EN	L3E7072K0A	0						
	44	Back Porch Crosstalk Corr. EN	L3E7072K0A	0						
	45	R_base_pos	L3E7072K0A	4						When adjusting G, the value of R and B changes together
	46	G_base_pos	L3E7072K0A	4						
	47	B_base_pos	L3E7072K0A	4						
	48	RGB_adjust	L3E7072K0A	0						
	49	RGB_level	L3E7072K0A	0						
	50	V-Line Shade Corr. Set [R0]	L3E7072K0A	7						
	51	V-Line Shade Corr. Set [R1]	L3E7072K0A	3						
	52	V-Line Shade Corr. Set [R2]	L3E7072K0A	1						
	53	V-Line Shade Corr. Set [R3]	L3E7072K0A	0						
	54	V-Line Shade Corr. Set [R4]	L3E7072K0A	253						
	55	V-Line Shade Corr. Set [G0]	L3E7072K0A	7						
	56	V-Line Shade Corr. Set [G1]	L3E7072K0A	3						
	57	V-Line Shade Corr. Set [G2]	L3E7072K0A	1						
	58	V-Line Shade Corr. Set [G3]	L3E7072K0A	0						
	59	V-Line Shade Corr. Set [G4]	L3E7072K0A	253						
	60	V-Line Shade Corr. Set [B0]	L3E7072K0A	7						
	61	V-Line Shade Corr. Set [B1]	L3E7072K0A	3						
	62	V-Line Shade Corr. Set [B2]	L3E7072K0A	1						
	63	V-Line Shade Corr. Set [B3]	L3E7072K0A	0						
	64	V-Line Shade Corr. Set [B4]	L3E7072K0A	253						
	65	Ghost_R_pos (Sequence)	L3E7072K0A	4						When adjusting G, the value of R and B changes together
	66	Ghost_G_pos (Sequence)	L3E7072K0A	4						
	67	Ghost_B_pos (Sequence)	L3E7072K0A	4						
	68	Ghost_R_center	L3E7072K0A	5						When adjusting G, the value of R and B changes together
	69	Ghost_R_start	L3E7072K0A	128						
	70	Ghost_R_end	L3E7072K0A	128						
	71	Ghost_G_center	L3E7072K0A	5						When adjusting G, the value of R and B changes together
	72	Ghost_G_start	L3E7072K0A	128						
	73	Ghost_G_end	L3E7072K0A	128						
	74	Ghost_B_center	L3E7072K0A	5						When adjusting G, the value of R and B changes together
	75	Ghost_B_start	L3E7072K0A	128						
	76	Ghost_B_end	L3E7072K0A	128						
	77	R-Block Ghost	L3E7072K0A	3						When adjusting G, the value of R and B changes together
	78	G-Block Ghost	L3E7072K0A	3						
	79	B-Block Ghost	L3E7072K0A	3						
	80	R_base_level (Block)	L3E7072K0A	0						Reserved
	81	G_base_level (Block)	L3E7072K0A	0						Reserved
	82	B_base_level (Block)	L3E7072K0A	0						Reserved
	83	Ghost_R_pos (Reverse)	L3E7072K0A	3						When adjusting G, the value of R and B changes together
	84	Ghost_G_pos (Reverse)	L3E7072K0A	3						
	85	Ghost_B_pos (Reverse)	L3E7072K0A	3						
	86	R_base_level (Reverse)	L3E7072K0A	0						
	87	G_base_level (Reverse)	L3E7072K0A	0						
	88	B_base_level (Reverse)	L3E7072K0A	0						
	89	C_TALK R	L3E7072K0A	1022						
	90	C_TALK G	L3E7072K0A	1022						
	91	C_TALK B	L3E7072K0A	1022						
	92	C_TALK_R_level	L3E7072K0A	730						
	93	C_TALK_G_level	L3E7072K0A	730						
	94	C_TALK_B_level	L3E7072K0A	730						
	95	C_TALK R_CENT	L3E7072K0A	5						When adjusting G, the value of R and B changes together
	96	C_TALK R_START	L3E7072K0A	128						
	97	C_TALK R_END	L3E7072K0A	128						
	98	C_TALK G_CENT	L3E7072K0A	5						When adjusting G, the value of R and B changes together
	99	C_TALK G_START	L3E7072K0A	128						
	100	C_TALK G_END	L3E7072K0A	128						
	101	C_TALK B_CENT	L3E7072K0A	5						When adjusting G, the value of R and B changes together
	102	C_TALK B_START	L3E7072K0A	128						
	103	C_TALK B_END	L3E7072K0A	128						
	104	Iccom_correct_select	L3E7072K0A	16						
	105	Hori Start	L3E7072K0A	268						
	106	Vert Start	L3E7072K0A	10						
	107	Hori End	L3E7072K0A	1291						
	108	Vert End	L3E7072K0A	777						

Electrical Adjustments

Item No.		NAME	Device	XGA					Range	Description
				PC	Component			Video		
					HDTV	480p	480i	NTSC / PAL		
	109	R MIN	L3E7072K0A			335				
	110	R_MID2	L3E7072K0A			532				
	111	R_MID1	L3E7072K0A			645				
	112	R_MAX	L3E7072K0A			695				
	113	G MIN	L3E7072K0A			335				
	114	G_MID2	L3E7072K0A			532				
	115	G_MID1	L3E7072K0A			645				
	116	G_MAX	L3E7072K0A			695				
	117	B MIN	L3E7072K0A			335				
	118	B_MID2	L3E7072K0A			532				
	119	B_MID1	L3E7072K0A			645				
	120	B_MAX	L3E7072K0A			695				
	121	G_V1 (DAC)	M62398FP			100				
	122	R_V1 (DAC)	M62398FP			100				
	123	B_V1 (DAC)	M62398FP			100				
	124	REF_G (DAC)	M62398FP			203				
	125	REF_R (DAC)	M62398FP			203				
	126	REF_B (DAC)	M62398FP			198				
	127	G_LCCOM (L3E06100)	L3E6100			105				
	128	R_LCCOM (L3E06100)	L3E6100			105				
	129	B_LCCOM (L3E06100)	L3E6100			105				
	130	SyncPosition	L3E7072K0A			0				Link with 9-131
	131	SyncVideoPosition	L3E7072K0A			0				Link with 9-130
	132	Color Shading SW	L3E7072K0A			1				Color Shading Correction, 0: Off, 1: On (Not memorized)
Group 100		OPTION (Lamp Time, Service Port etc)								
	1	RS232C Baudrate	PW185B			0				0 : 19200bps 1: 9600bps
	2	PJLink Enable	MCI			1			0-1	0:Disable 1:Enable
	5	PW Debug Command Enable	PW185B			1			0-1	0:Disable 1:Enable(Sanyo Serial Command Disable)(Not memorized)
	6	Device Refresh Disable	PW185B			0			0-1	0:Enable 1:Disable(Not memorized)
	20	Projector Time Reset	PW185B			0			0-20	Resets Projector time when the value is set to 10.
	21	Lamp Warning Time (NORMAL)	PW185B			2000			0-10000	Normal lamp warning time
	22	Lamp Warning Time (ECO)	PW185B			5000			0-10000	Eco lamp warning time
	30	Lamp life test enable	PW185B			0			0-1	0:Disable 1:Enable For safety test purpose
	31	Lamp On time for life test	PW185B			1			1-720	For test purpose
	32	Lamp Off time for life test	PW185B			3			1-720	For test purpose
	33	Lamp total time for life test	PW185B			0			0-32767	For test purpose
	40	Memory viewer please wait display disable	PW185B			0			0-1	0: disable 1:Enable, Prohibit a part of Memory Viewer function
	50	RC Mode	PW185			0			0-1	
Group 101		OPTION (Signal Processing)								
	2	Shoot Out Mode	PW185B			0				1: Shoot Out Mode Enable0: Disable
	3	Frame Lock SW	PW185B			0				0:Not V-Sync, 1:V-Sync
	5	Non Brand	PW185B			0				0:Normal1:Non Brand
	6	Monitor Error Count	PW185B			5				Threshold value of Monitor error count
	7	CABLE SW	PW185B			0				Cable switch
Group 103		PW185B Image Control								
				PC	COMPONENT			VIDEO		
				PC	HDTV	480i		VIDEO	SCART	
	0	Center Contrast	PW185B	512	512	512		512	512	PW185B CONTRAST Center adjustment
	1	Center Brightness	PW185B	512	512	512		512	512	PW185B BRIGHTNESS Center adjustment
	2	Center Color	PW185B	512	475	475		475	425	PW185B COLOR Center adjustment
	3	Center Tint	PW185B	90	82	82		82	82	PW185B TINT Center adjustment
	4	Center Sharpness	PW185B	16	16	16		16	16	PW185B SHARPNESS Center adjustment
	5	Alpha Contrast	PW185B	40	40	40		40	40	PW185B CONTRAST Range adjustment
	6	Alpha Brightness	PW185B	140	140	140		140	140	PW185B BRIGHTNESS Range adjustment
	7	Alpha Color	PW185B	70	70	70		70	70	PW185B COLOR Range adjustment
	8	Alpha Tint	PW185B	10	10	10		10	10	PW185B TINT Range adjustment
	9	Alpha Sharpness	PW185B	10	10	10		10	10	PW185B SHARPNESS Range adjustment
Group 104		PW185B Auto PC Adjust Control								
	0	AutoPCAdjustEnable	PW185B			0			0-1	0:Auto1:Prohibit Auto PC Adj.
	1	Frequency Step	PW185B			2			0-3	
	2	Frequency Threshold	PW185B			5			0-10	
	3	Fine Phase	PW185B			1			0-1	
	4	BLKDET	PW185B			1			0-3	Black Level Detecte Area
	5	PHASEMSK	PW185B			0			0-3	Phase Detection Filter0:Effect all bits1:Disable lower 1 bit2:Disable lower 2 bits 3:Disable lower 3 bits
Group 105		Custom Mode								
	0	Connecting to H/V	PW185B			0			0-1	Link H and V, 1: On, 0: Off
	1	Vertical Scaler	PW185B			100			0-200	Vertical Scaler Edit (Unit %)
	2	Vertical Position	PW185B			100			0-200	Vertical Position Correction (Unit %)
	3	RESET/STORE	PW185B			0			0-1	Reset Vertical Aspect 0:Reset, 1:Save0
	4	Horizontal Scaler	PW185B			100			0-200	Horizontal Scaler Edit (Unit %)
	5	Horizontal Position	PW185B			100			0-200	Horizontal Position Correction (Unit %)
	6	RESET/STORE	PW185B			0			0-1	Reset Horizontal Aspect 0:Reset, 1:Save0
	7	CUSTOM ON/OFF	PW185B			0			0-1	Custom function On/Off 1: On, 0:Off
Group 110		Dimmer Processing for Ballast type								
	0	DIMMER_CTRL_LEVEL1	PW185B			8				Luminance Level1:Dimmer Level1 when less than the value. Link with 100-7
	1	DIMMER_CTRL_LEVEL2	PW185B			15				Luminance Level2:Dimmer Level2 when less than the value.

Electrical Adjustments

Item No.		NAME	Device	XGA					Range	Description
				PC	Component			Video		
					HDTV	480p	480i	NTSC / PAL		
	2	DIMMER_CTRL_LEVEL3	PW185B	23						Luminance Level3:Dimmer Level3 when less than the value.
	3	DIMMER_CTRL_LEVEL4	PW185B	30						Luminance Level4:Dimmer Level4 when less than the value.
	4	DIMMER_CTRL_LEVEL5	PW185B	38						Luminance Level5:Dimmer Level5 when less than the value.
	5	DIMMER_CTRL_LEVEL6	PW185B	45						Luminance Level6:Dimmer Level6 when less than the value.
	6	DIMMER_CTRL_LEVEL7	PW185B	53						Luminance Level7:Dimmer Level7 when less than the value.
	7	DIMMER_CTRL_LEVEL8	PW185B	60						Luminance Level8:Dimmer Level8 when less than the value.
	8	DIMMER_CTRL_LEVEL9	PW185B	68						Luminance Level9:Dimmer Level9 when less than the value.
	9	DIMMER_CTRL_LEVEL10	PW185B	75						Luminance Level10:Dimmer Level10 when less than the value.
	10	DIMMER_CTRL_LEVEL11	PW185B	83						Luminance Level11:Dimmer Level11 when less than the value.
	11	DIMMER_CTRL_LEVEL12	PW185B	90						Luminance Level12:Dimmer Level12 when less than the value.
	12	DIMMER_CTRL_LEVEL13	PW185B	98						Luminance Level13:Dimmer Level13 when less than the value.(Not used for PH)
	13	DIMMER_CTRL_LEVEL14	PW185B	105						Luminance Level14:Dimmer Level14 when less than the value.(Not used for PH)
	14	DIMMER_CTRL_LEVEL15	PW185B	255						Luminance Level15:Dimmer Level15 when less than the value.(Not used for PH)
	15	DIMMER_AVERAGE_POINT	PW185B	4						Avarage point of Luminance data for Dimmer
	16	DIMMER_AVERAGE_DATA	PW185B	-						Avarage value of Luminance data for Dimmer, Read only
	17	DIMMER_LEVEL_AUTO	PW185B	-						Present Dimmer Lavel
	18	DIMMER_LEVEL_NORMAL	PW185B	14						Dimmer Level at Normal
	19	DIMMER_LEVEL_ECO	PW185B	0						Dimmer Level at Eco
	20	Lamp check enable	PW185B	1						1: Lamp Fail Detection On (White 50% back), 0: Off (Blue 100% back)
	21	VOLTAGE_LEVEL	PW185B	-						Lamp Voltage, Read only 8bit value
Group 111		FAN CONTROL								
				Normal	Ceiling	Normal/Ceiling		Ceiling/Hi-land		
	0	FAN_TEMP_A_WARNING	PW185B	50	56	44		49	30-100	Temp A to judge temperature Error (Memorized)for Outside temp.
	1	FAN_TEMP_B_WARNING	PW185B	63	68	54		62	30-100	Temp B to judge temperature Error (Memorized)for Panel temp.
	2	FAN_TEMP_C_WARNING	PW185B	67	65	61		67	30-100	Temp C to judge temperature Error (Memorized)for Lamp temp.
	3	FAN_TEMP_B-A_WARNING	PW185B	100	100	100		100	0-100	Temp B-A to judge temperature Error (Memorized)for Filter cloggle detection
	4	FAN_TEMP_C-A_WARNING	PW185B	100	100	100		100	0-100	Temp C-A to judge temperature Error (Memorized)for Filter cloggle detection
	5	FAN_1_SPEED_MONI	PW185B	-					0-255	Fan Speed Monitor (Read only)
	6	FAN_2_SPEED_MONI	PW185B	-					0-255	Fan Speed Monitor (Read only)
	7	FAN_TEMP_A_MONI	PW185B	-						
	8	FAN_TEMP_B_MONI	PW185B	-					-	
	9	FAN_TEMP_C_MONI	PW185B	-					-	
	10	Lamp Mode	PW185B	Auto					0-2	Normal/Auto/Eco
	11	Fan Ctrl Mode	PW185B	Normal					0-1	Normal/Ceiling Switching
	12	FAN_CONTROL_SW	PW185B	0					0-3	0:Auto, 1:Max, 2:Min, 3:Manual Auto/Max/Min/ManualSwitching
	13	Hi-Land SW	M62398FP	0					0-5	0: Normal mode 1:Highland mode 2~4: Highland mode 1~3 5:Fixed
	14	Safety FAN Control Fix SW	M62398FP	0						For Safety Test FAN Control 0:Normal, 1:Normal Min, 2:Normal Max, 3:Eco Min, 4:Eco Max (Not Memorized),1-4 Temp Error at 100°C
	15	FAN_1_SPEED_CTRL	PW185B	135					0-255	Manual Adj. mode at FAN_CONTROL_SW=3 Normal
	16	FAN_2_SPEED_CTRL	PW185B	135					0-255	Manual Adj. mode at FAN_CONTROL_SW=3 Normal
	17	TEMP_UPWARNING_TIME_A (OUTSIDE)	PW185B	3					0-5	Setup Error Temp. for a duration of X minites started from Power ON
	18	TEMP_UPWARNING_TIME_B (PANEL)	PW185B	3					0-5	Setup Error Temp. for a duration of X minites started from Power ON
	19	TEMP_UPWARNING_TIME_C (LAMP)	PW185B	3					0-5	Setup Error Temp. for a duration of X minites started from Power ON
	20	TEMP_UPWARNING_TIME_B-A	PW185B	3					0-5	Setup Error Temp. for a duration of X minites started from Power ON
	21	TEMP_UPWARNING_TIME_C-A	PW185B	3					0-5	Setup Error Temp. for a duration of X minites started from Power ON
	22	UPWARNING_TEMP_A (OUTSIDE)	PW185B	8						Increase X°C for Error Temp. for a limitted time started from Power ON
	23	UPWARNING_TEMP_B (PANEL)	PW185B	5						Increase X°C for Error Temp. for a limitted time started from Power ON
	24	UPWARNING_TEMP_C (LAMP)	PW185B	8						Increase X°C for Error Temp. for a limitted time started from Power ON
	25	UPWARNING_TEMP_B-A	PW185B	8						Increase X°C for Error Temp. for a limitted time started from Power ON
	26	UPWARNING_TEMP_C-A	PW185B	8						Increase X°C for Error Temp. for a limitted time started from Power ON
	27	FAN_1_START_SPEED	PW185B	80					0-255	Start Volotage 8V Fan sereis 1
	28	FAN_2_START_SPEED	PW185B	80					0-255	Start Volotage 8V Fan sereis 1
	29									
	30									
	31	FAN_1_COOLING_SPEED	PW185B	100					0-255	Fan series 1 Voltage at PowerOFF(Fan ModeL1)
	32	FAN_2_COOLING_SPEED	PW185B	100					0-255	Fan series 2 Voltage at PowerOFF(Fan ModeL1)
	33	FAN_1_TEMPERROR_SPEED	PW185B	135					0-255	Fan series 1 Voltage at Temp Error
	34	FAN_2_TEMPERROR_SPEED	PW185B	135					0-255	Fan series 2 Voltage at Temp Error
	35	Cooling Time L1	M62398FP	3					1-15	Cooling time setting for Fan Mode L1 (x30sec)1:30sec3:90sec15:450sec
	36	Cooling Time L2	M62398FP	4					1-15	Cooling time setting for Fan Mode L2 (x30sec)1:30sec3:90sec15:450sec
	37	IGNORE_TEMP_CHANGE_RATE	PW185B	10					5-50	Margin setting
	38	IGNORE_TEMP_CHANGE_TIMES	PW185B	5					1-9	Margin setting
	39									
	40									
	41									
	42	NOR_TEMP_FAN1_MIN	PW185B	41						FAN1 Control start temp.at Normal
	43	NOR_TEMP_FAN1_MAX	PW185B	45						FAN1 Control end temp. at Normal
	44	NOR_TEMP_FAN2_MIN	PW185B	41					0-255	FAN2 Control start temp.at Normal
	45	NOR_TEMP_FAN2_MAX	PW185B	45						FAN2 Control end temp. at Normal
	46	NOR_VALU_FAN1_MIN	M62398FP	65						FAN1 Control Min at Nromal (0:0V, 255:25.5V)

Item No.		NAME	Device	XGA					Range	Description
				PC	Component			Video		
					HDTV	480p	480i	NTSC / PAL		
	47	NOR_VALU_FAN1_MAX	M62398FP	110						FAN1 Control Max at Normal
	48	NOR_VALU_FAN2_MIN	M62398FP	77					0-255	FAN2 Control Min at Normal
	49	NOR_VALU_FAN2_MAX	M62398FP	125						FAN2 Control Max at Normal
	50	ECO_TEMP_FAN1_MIN	PW185B	42						FAN1 Control start temp.at Eco
	51	ECO_TEMP_FAN1_MAX	PW185B	46						FAN1 Control end temp. at Eco
	52	ECOTEMP_FAN2_MIN	PW185B	42					0-255	FAN2 Control start temp.at Eco
	53	ECO_TEMP_FAN2_MAX	PW185B	46						FAN2 Control end temp. at Eco
	54	ECO_VALU_FAN1_MIN	PW185B	52						FAN1 Control Min at Eco
	55	ECO_VALU_FAN1_MAX	PW185B	100						FAN1 Control Max at Eco
	56	ECO_VALU_FAN2_MIN	PW185B	62					0-255	FAN2 Control Min at Eco
	57	ECO_VALU_FAN2_MAX	PW185B	89						FAN2 Control Max at Eco
	58	HINOR_TEMP_FAN1_MIN	PW185B	43						FAN1 Control start temp.at Highland Normal
	59	HINOR_TEMP_FAN1_MAX	PW185B	43						FAN1 Control end temp. at Highland Normal
	60	HINOR_TEMP_FAN2_MIN	PW185B	43					0-255	FAN2 Control start temp.at Highland Normal
	61	HINOR_TEMP_FAN2_MAX	PW185B	43						FAN2 Control end temp. at Highland Normal
	62	HINOR_VALU_FAN1_MIN	M62398FP	135						FAN1 Control Min at Highland Nromal (0:0V, 255:25.5V)
	63	HINOR_VALU_FAN1_MAX	M62398FP	135						FAN1 Control Max at Highland Normal
	64	HINOR_VALU_FAN2_MIN	M62398FP	126					0-255	FAN2 Control Min at Highland Normal
	65	HINOR_VALU_FAN2_MAX	M62398FP	126						FAN2 Control Max at Highland Normal
	66	HIECO_TEMP_FAN1_MIN	PW185B	44						FAN1 Control start temp.at Highland Eco
	67	HIECO_TEMP_FAN1_MAX	PW185B	44						FAN1 Control end temp. at Highland Eco
	68	HIECOTEMP_FAN2_MIN	PW185B	44					0-255	FAN2 Control start temp.at Highland Eco
	69	HIECO_TEMP_FAN2_MAX	PW185B	44						FAN2 Control end temp. at Highland Eco
	70	HIECO_VALU_FAN1_MIN	M62398FP	125						FAN1 Control Min at Highland Eco
	71	HIECO_VALU_FAN1_MAX	M62398FP	125						FAN1 Control Max at Highland Eco
	72	HIECO_VALU_FAN2_MIN	M62398FP	96					0-255	FAN2 Control Min at Highland Eco
	73	HIECO_VALU_FAN2_MAX	M62398FP	96						FAN2 Control Max at Highland Eco
	74	CLNOR_TEMP_FAN1_MIN	PW185B	41						FAN1 Control start temp.at Ceiling Normal
	75	CINOR_TEMP_FAN1_MAX	PW185B	53						FAN1 Control end temp. at Ceiling Normal
	76	CLNOR_TEMP_FAN2_MIN	PW185B	41					0-255	FAN2 Control start temp.at Ceiling Normal
	77	CLNOR_TEMP_FAN2_MAX	PW185B	53						FAN2 Control end temp. at Ceiling Normal
	78	CLNOR_VALU_FAN1_MIN	M62398FP	75						FAN1 Control Min at Ceiling Nromal (0:0V, 255:25.5V)
	79	CLNOR_VALU_FAN1_MAX	M62398FP	135						FAN1 Control Max at Ceiling Normal
	80	CLNOR_VALU_FAN2_MIN	M62398FP	80					0-255	FAN2 Control Min at Ceiling Normal
	81	CLNOR_VALU_FAN2_MAX	M62398FP	120						FAN2 Control Max at Ceiling Normal
	82	CLECO_TEMP_FAN1_MIN	PW185B	42						FAN1 Control start temp.at Ceiling Eco
	83	CLECO_TEMP_FAN1_MAX	PW185B	52						FAN1 Control end temp. at Ceiling Eco
	84	CLECOTEMP_FAN2_MIN	PW185B	42					0-255	FAN2 Control start temp.at Ceiling Eco
	85	CLECO_TEMP_FAN2_MAX	PW185B	52						FAN2 Control end temp. at Ceiling Eco
	86	CLECO_VALU_FAN1_MIN	M62398FP	57						FAN1 Control Min at Ceiling Eco
	87	CLECO_VALU_FAN1_MAX	M62398FP	120						FAN1 Control Max at Ceiling Eco
	88	CLECO_VALU_FAN2_MIN	M62398FP	67					0~255	FAN2 Control Min at Ceiling Eco
	89	CLECO_VALU_FAN2_MAX	M62398FP	90						FAN2 Control Max at Ceiling Eco
	90	FAN_1_AUTO_ADJ	PW185B	0					0-1	0: OFF(Manual) 1:ON(Auto)
	91	FAN_2_AUTO_ADJ	PW185B	0					0-1	0: OFF(Manual) 1:ON(Auto)
	92	FACTORY_STD_FAN_VOL_MIN	PW185B	52					0-255	For Factory
	93	FACTORY_STD_FAN_VOL_MAX	PW185B	135					0-255	For Factory
	94	FAN1_ADJUST_VOLT_MIN	M62398FP	15						For Factory
	95	FAN1_ADJUST_VOLT_MAX	M62398FP	203						For Factory
	96	FAN2_ADJUST_VOLT_MIN	M62398FP	15					0~255	For Factory
	97	FAN2_ADJUST_VOLT_MAX	M62398FP	203						For Factory
	98	TEMP_ERROR_DETECT_MAX_ TIMES		5					1-9	Detecting times for Temp Error
	99	FAN_1_MIN_VOL_LAMP_DIFF		0					0-20	
	100	FAN_2_MIN_VOL_LAMP_DIFF		0					0-20	
	101	LAMP_VOL_BORDER_LINE		70					30-90	
	102	LAMP_VOL		-					0-255	Present Lamp Voltage
	103	Dimmer Voltage Change Cycle		3						Change cycle of voltage at Dimmer
	104	Dimmer Avarage Check Period		10						Measurement time of Dimmer average
	105	Dimmer Voltage Change Rate		1						Voltage change rate ta Dimmer
	106	Dimmer Average		-						Dimmer average
	107	Last Voltage Difference		-						Last voltage difference
	108	Voltage Difference Goal		-						Target voltage difference at Dimmer
	109	Fan Control Tempdiff Normal	PW185B	0					0-10	Fan control temperature offset temp. Normal
Group 200		Auto Calibration								
	0	Execute Calibration	PW185B	0					0 - 255	Auto executiong when value changes
	1	Loop Count	PW185B	3					1 - 30	Loop times of Auto Calibration
	2	OFFSET AREA H START	PW185B	25					0 - 4095	Black Level Acquire area H-Start Position
	3	OFFSET AREA V START	PW185B	500					0 - 4095	Black Level Acquire area V-Start Position
	4	GAIN AREA H START	PW185B	975					0 - 4095	White Level Acquire area H-Start Position
	5	GAIN AREA V START	PW185B	500					0 - 4095	White Level Acquire area V-Start Position
	6	Image AREA H WIDTH	PW185B	13					0 - 4095	Black/White Level Acquire area
	7	Image AREA V HIGHT	PW185B	9					0 - 4095	Black/White Level Acquire area Height
	8	OFFSET target	PW185B	1					0 - 127	Target for Black Level Adj.
	9	OFFSET torelance	PW185B	1					1 - 127	Allowence Range for Black Level Adj
	10	GAIN target	PW185B	244					0 - 255	Target for White Level Adj.
	11	GAIN torelance	PW185B	1					1 - 255	Allowence Range for White Level Adj
	12	Offset Area Average [Red]	PW185B	0					0 - 255	Read Only
	13	Offset Area Average [Green]	PW185B	0					0 - 255	Read Only
	14	Offset Area Average [Blue]	PW185B	0					0 - 255	Read Only

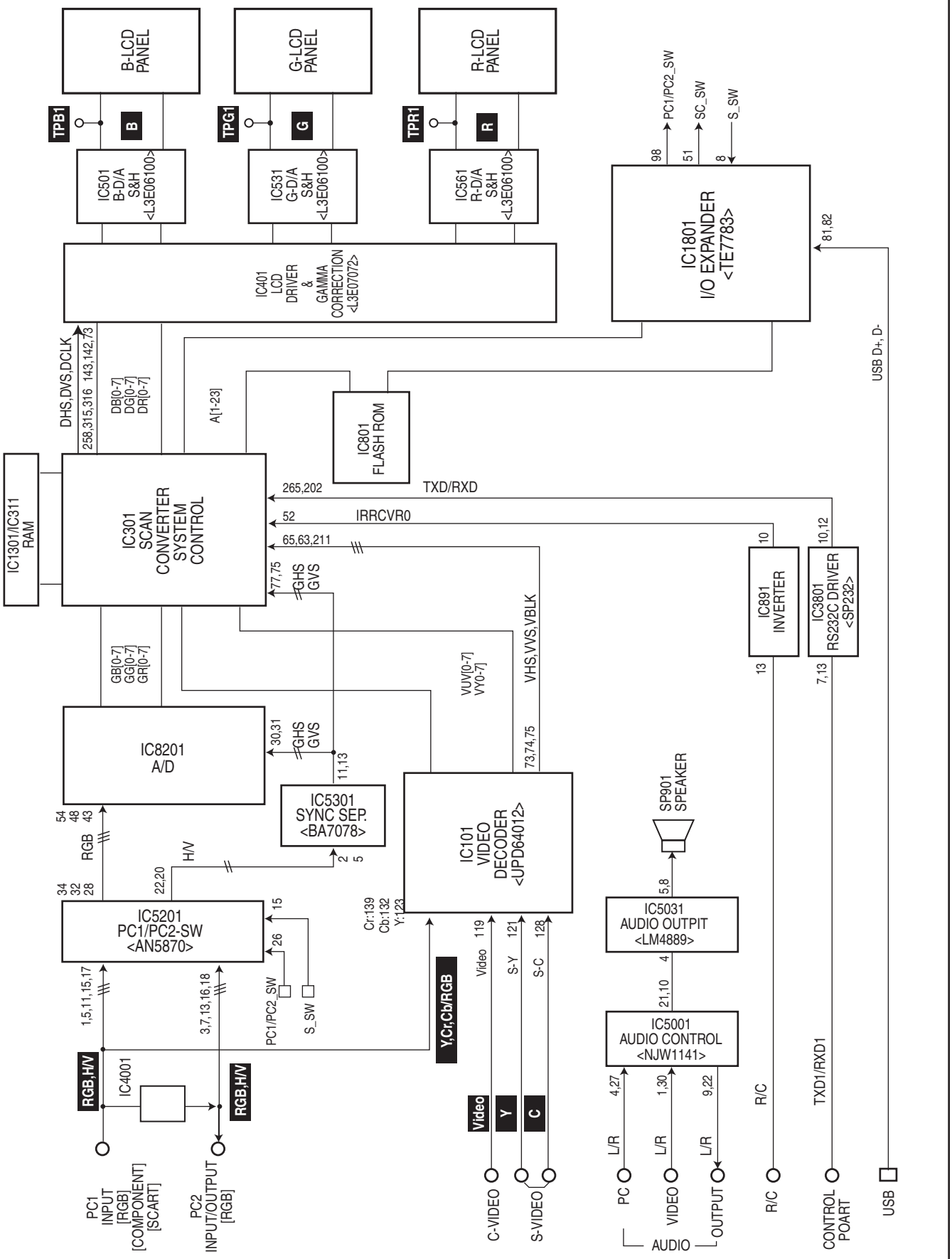
Item No.		NAME	Device	XGA					Range	Description
				PC	Component			Video		
					HDTV	480p	480i	NTSC / PAL		
	15	Gain Area Average [Red]	PW185B		0				0 - 255	Read Only
	16	Gain Area Average [Green]	PW185B		0				0 - 255	Read Only
	17	Gain Area Average [Blue]	PW185B		0				0 - 255	Read Only
	18	Image LevelUpdate [OFFSET]	PW185B		0				0 - 255	Upadte item 12/13, Link to item 14
Group 290		Panel Type								
	0	Gamma L/R-Check			0				0 - 20	0: Gamma for L-Panel, 20: Gamma for R-Panel (Read only)
	1	Gamma L/R-Change			10				0 - 20	Change for R-Panel when the value is set to 20. Change for L-Panel when the value is set to 0.
Group 300		General DeInterlacer								
	1	3:2 PullDown Mode	PW185B		1				1 - 3	bit 0 : Global Motion Enable (FILMODEN23 GMD) bit 1 : Video Motion(VOFMODEN)
	2	Detect Film Mode Enable	PW185B		0				0 - 2	0 : 2:3pull down & 2:2pull down, 1 : 2:3pull down, 2 : 2:2pull down * Adjust at Film Mode with Menu
Group 301		Motion Adaptive								
	0	Motion Adaptive Weight Value L1	PW185B		30				0 - 255	KDEINT
	1	Motion Adaptive Weight Value L2	PW185B		0				0 - 255	KDEINT
	2	Motion Adaptive Weight Value FILM	PW185B		30				0 - 255	KDEINT
Group 302		Low Angle Interporation (LAI)								
	0	Angle Interpolation Level L1	PW185B		4				0 - 4	
	1	Angle Interpolation Level L2	PW185B		2				0 - 4	
	2	Angle Interpolation Level FILM	PW185B		4				0 - 4	
Group 311		Noise Reduction L1								
	0	Noise Pixel Range	PW185B		1				0 - 3	<NSRANGEY> / <NSRANGEUV>
	1	Noise Region 0	PW185B		12				0 - 1023	<NSREGIONY0> / <NSREGIONUV0>
	2	Noise Region 1	PW185B		24				0 - 1023	<NSREGIONY1> / <NSREGIONUV1>
	3	Noise Region 2	PW185B		40				0 - 1023	<NSREGIONY2> / <NSREGIONUV2>
	4	Noise Gain Level	PW185B		90				0 - 1023	<NSFILTERY**> / <NSFILTERUV**>
Group 313		Noise Reduction L2								
	0	Noise Pixel Range	PW185B		1				0 - 3	<NSRANGEY> / <NSRANGEUV>
	1	Noise Region 0	PW185B		12				0 - 1023	<NSREGIONY0> / <NSREGIONUV0>
	2	Noise Region 1	PW185B		24				0 - 1023	<NSREGIONY1> / <NSREGIONUV1>
	3	Noise Region 2	PW185B		40				0 - 1023	<NSREGIONY2> / <NSREGIONUV2>
	4	Noise Gain Level	PW185B		110				0 - 1023	<NSFILTERY**> / <NSFILTERUV**>
Group 320		2:2 Pull Down								
	0	22Film Mode Sensitivity	PW185B		4				1 - 5	Film Detection Sensitivity <FILMSTVT22>
	1	22Film Mode Threshold Low	PW185B		80				0 - 32767	<FILMTHRD22A>
	2	22Film Mode Threshold High	PW185B		120				0 - 32767	<FILMTHRD22B>
	6	Video Motion Window Start X	PW185B		10				0 - 2047	Window Setting of 22PullDown & Video Motion Sum calib.
	7	Video Motion Window StopX	PW185B		10				0 - 2047	
	8	Video Motion Window Start Y	PW185B		10				0 - 1023	
	9	Video Motion Window StopY	PW185B		10				0 - 1023	
Group 321		3:2 PullDown								
	0	Global Motion Sensitivity	PW185B		4				1 - 5	Film Detection Sensitivity <FILMSTVT23>
	1	Video Motion Sensitivity	PW185B		4				1 - 5	Film Detection Sensitivity <VOFSTVT>
	2	Video Motion Threshold Low	PW185B		120				0 - 32767	<VOFTHRDA>
	3	Video Motion Threshold High	PW185B		180				0 - 32767	<VOFTHRDB>
	4									
	5	23Film Mode Threshold	PW185B		100				0 - 32767	<FILMTHRD23>
	6	Global Motion Window Start X	PW185B		10				0 - 2047	Window Setting of Global Motion Sum Calib.
	7	Global Motion Window Stop X	PW185B		10				0 - 2047	
	8	Global Motion Window Start Y	PW185B		10				0 - 1023	
	9	Global Motion Window Stop Y	PW185B		10				0 - 1023	
Group 500		OverScan Video 480i								
	1	Disp Dots (HRES)	PW185B		668					Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B		78					Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B		48					Vertical Back Porch
	4	Disp Line (VRES)	PW185B		458					Vertical Resolution
Group 502		OverScan Video 575i								
	1	Disp Dots (HRES)	PW185B		658					Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B		94					Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B		64					Vertical Back Porch
	4	Disp Line (VRES)	PW185B		536					Vertical Resolution
Group 520		OverScan HDTV 480i								
	1	Disp Dots (HRES)	PW185B		670					Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B		78					Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B		50					Vertical Back Porch
	4	Disp Line (VRES)	PW185B		454					Vertical Resolution
Group 522		OverScan HDTV 575i								
	1	Disp Dots (HRES)	PW185B		650					Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B		96					Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B		64					Vertical Back Porch
	4	Disp Line (VRES)	PW185B		532					Vertical Resolution
Group 524		OverScan HDTV 480p								
	0	Total Dots(HTOTAL)	AD9883		1317					AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B		1050					Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B		211					Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B		48					Vertical Back Porch
	4	Disp Line (VRES)	PW185B		460					Vertical Resolution

Item No.		NAME	Device	XGA					Range	Description
				PC	Component			Video		
					HDTV	480p	480i	NTSC / PAL		
	5	Clamp Pos	AD9883	1						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
Group 526		OverScan HDTV 575p								
	0	Total Dots(HTOTAL)	AD9883	1253						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	956						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	234						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	62						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	536						Vertical Resolution
	5	Clamp Pos	AD9883	1						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
Group 528		OverScan HDTV 720p								
	0	Total Dots(HTOTAL)	AD9883	1650						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	1250						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	306						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	34						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	702						Vertical Resolution
	5	Clamp Pos	AD9883	42						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
Group 530		OverScan HDTV 1035i								
	0	Total Dots(HTOTAL)	AD9883	2200						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	1876						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	248						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	92						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	1012						Vertical Resolution
	5	Clamp Pos	AD9883	50						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
Group 532		OverScan HDTV 1080i 50Hz								
	0	Total Dots(HTOTAL)	AD9883	2640						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	1874						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	250						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	56						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	1050						Vertical Resolution
	5	Clamp Pos	AD9883	50						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
Group 534		OverScan HDTV 1080i 60Hz								
	0	Total Dots(HTOTAL)	AD9883	2200						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	1874						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	250						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	54						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	1054						Vertical Resolution
	5	Clamp Pos	AD9883	50						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
Group 540		OverScan RGB 480i								
	0	Total Dots(HTOTAL)	AD9883	780						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	616						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	130						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	54						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	460						Vertical Resolution
	5	Clamp Pos	AD9883	1						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
Group 542		OverScan RGB 575i								
	0	Total Dots(HTOTAL)	AD9883	944						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	718						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	180						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	66						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	536						Vertical Resolution
	5	Clamp Pos	AD9883	1						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
Group 544		OverScan RGB 480p								
	0	Total Dots(HTOTAL)	AD9883	1200						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	958						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	192						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	48						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	460						Vertical Resolution
	5	Clamp Pos	AD9883	1						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
Group 546		OverScan RGB 575p								
	0	Total Dots(HTOTAL)	AD9883	1200						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	912						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	224						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	62						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	540						Vertical Resolution
	5	Clamp Pos	AD9883	1						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
Group 548		OverScan RGB 720p								
	0	Total Dots(HTOTAL)	AD9883	1650						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	1250						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	306						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	34						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	702						Vertical Resolution

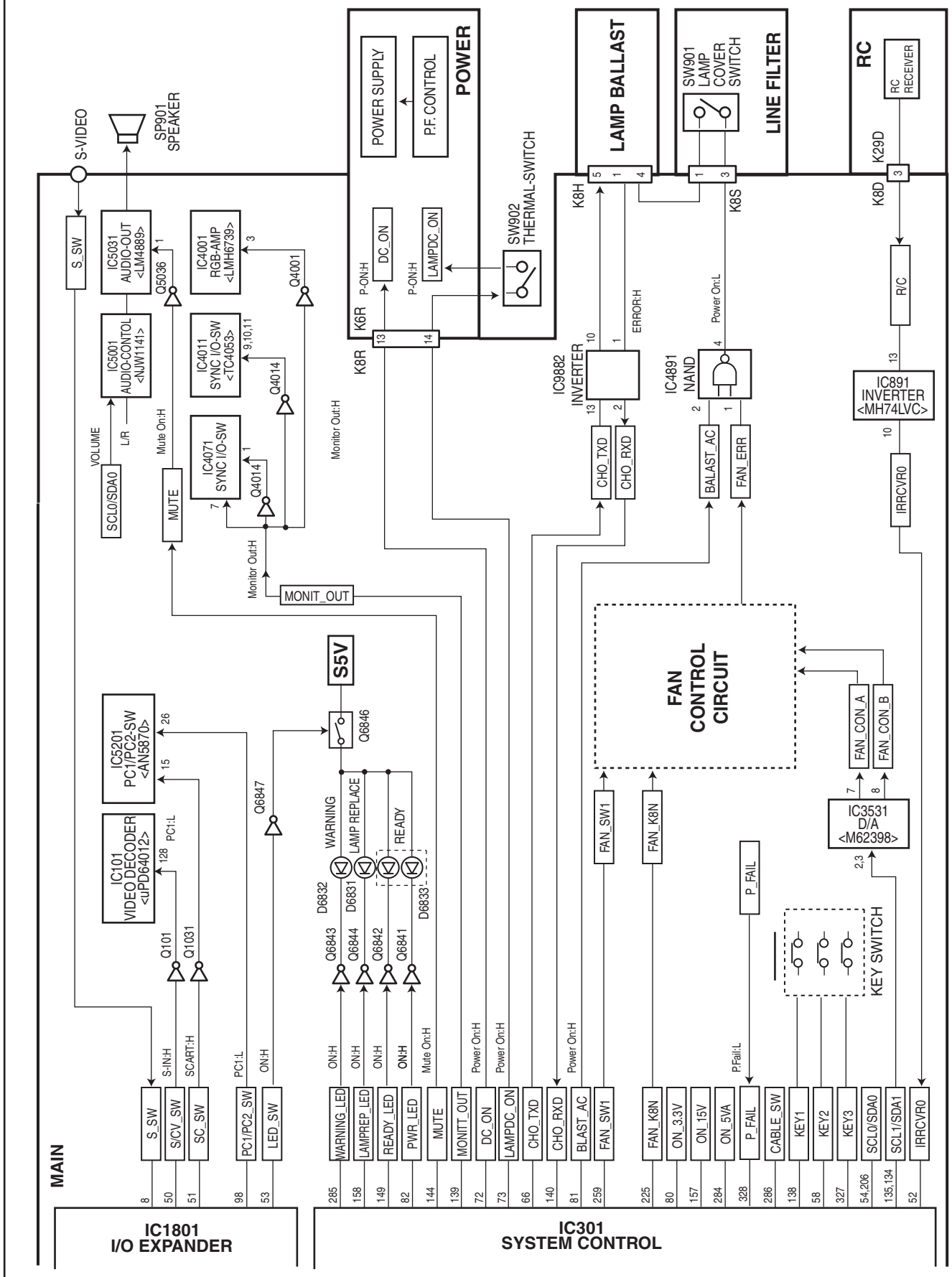
Item No.		NAME	Device	XGA					Range	Description
				PC	Component			Video		
					HDTV	480p	480i	NTSC / PAL		
	5	Clamp Pos	AD9883	48						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
Group 550		OverScan RGB 1035i								
	0	Total Dots(HTOTAL)	AD9883	2200						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	1874						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	250						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	92						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	1012						Vertical Resolution
	5	Clamp Pos	AD9883	48						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
Group 552		OverScan RGB 1080i 50Hz								
	0	Total Dots(HTOTAL)	AD9883	2640						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	1874						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	250						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	56						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	1052						Vertical Resolution
	5	Clamp Pos	AD9883	48						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
Group 554		OverScan RGB 1080i 60Hz								
	0	Total Dots(HTOTAL)	AD9883	2200						AD9883 PLL Div
	1	Disp Dots (HRES)	PW185B	1874						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	250						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	54						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	1054						Vertical Resolution
	5	Clamp Pos	AD9883	48						AD9883 Clamp Placement
	6	Clamp Width	AD9883	31						AD9883 Clamp Duration
Group 560		OverScan Scart 480i								
	1	Disp Dots (HRES)	PW185B	674						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	78						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	46						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	458						Vertical Resolution
Group 562		OverScan Scart 575i								
	1	Disp Dots (HRES)	PW185B	656						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW185B	96						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW185B	62						Vertical Back Porch
	4	Disp Line (VRES)	PW185B	536						Vertical Resolution

Chassis Block Diagrams

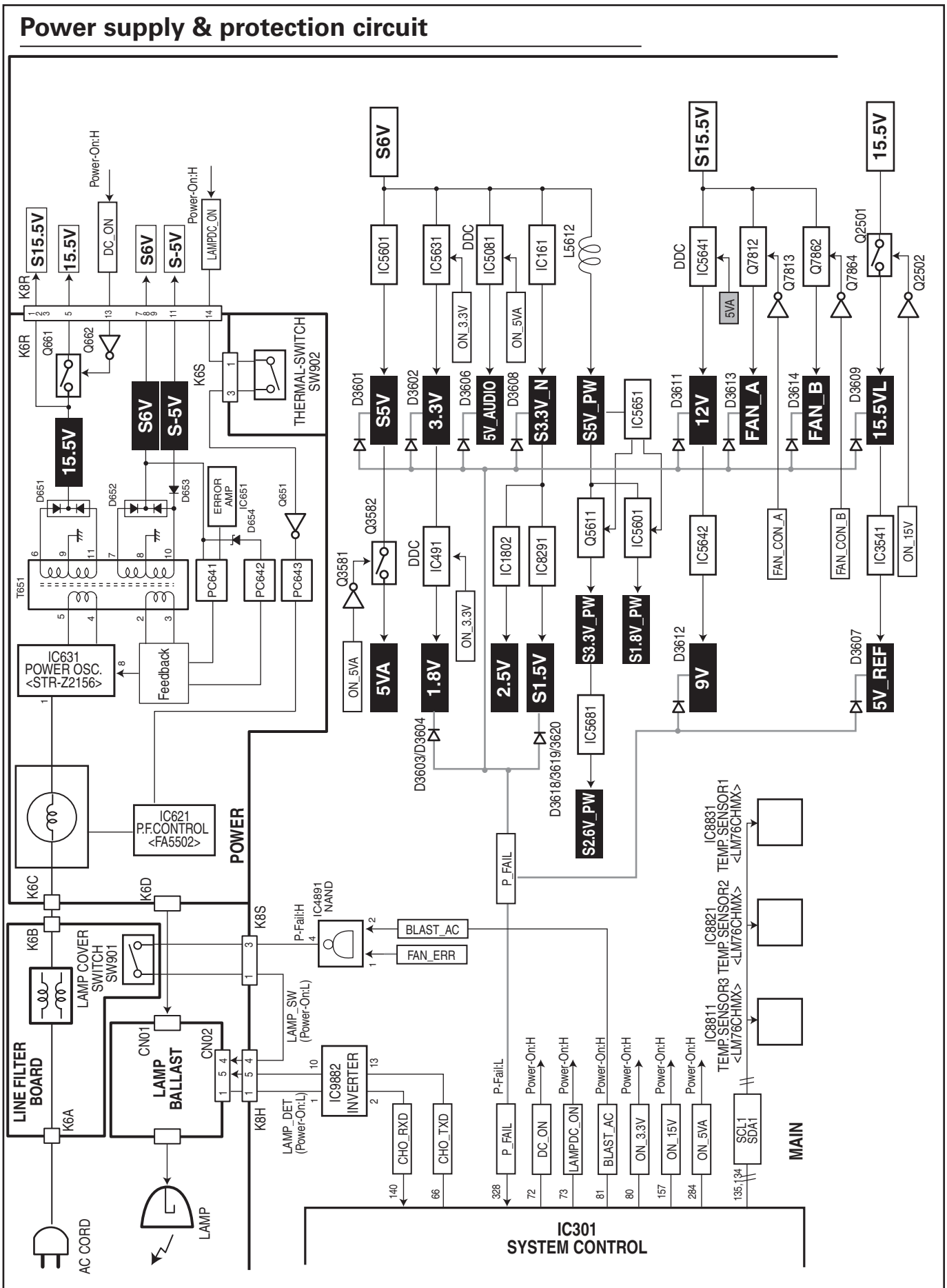
Chassis over view



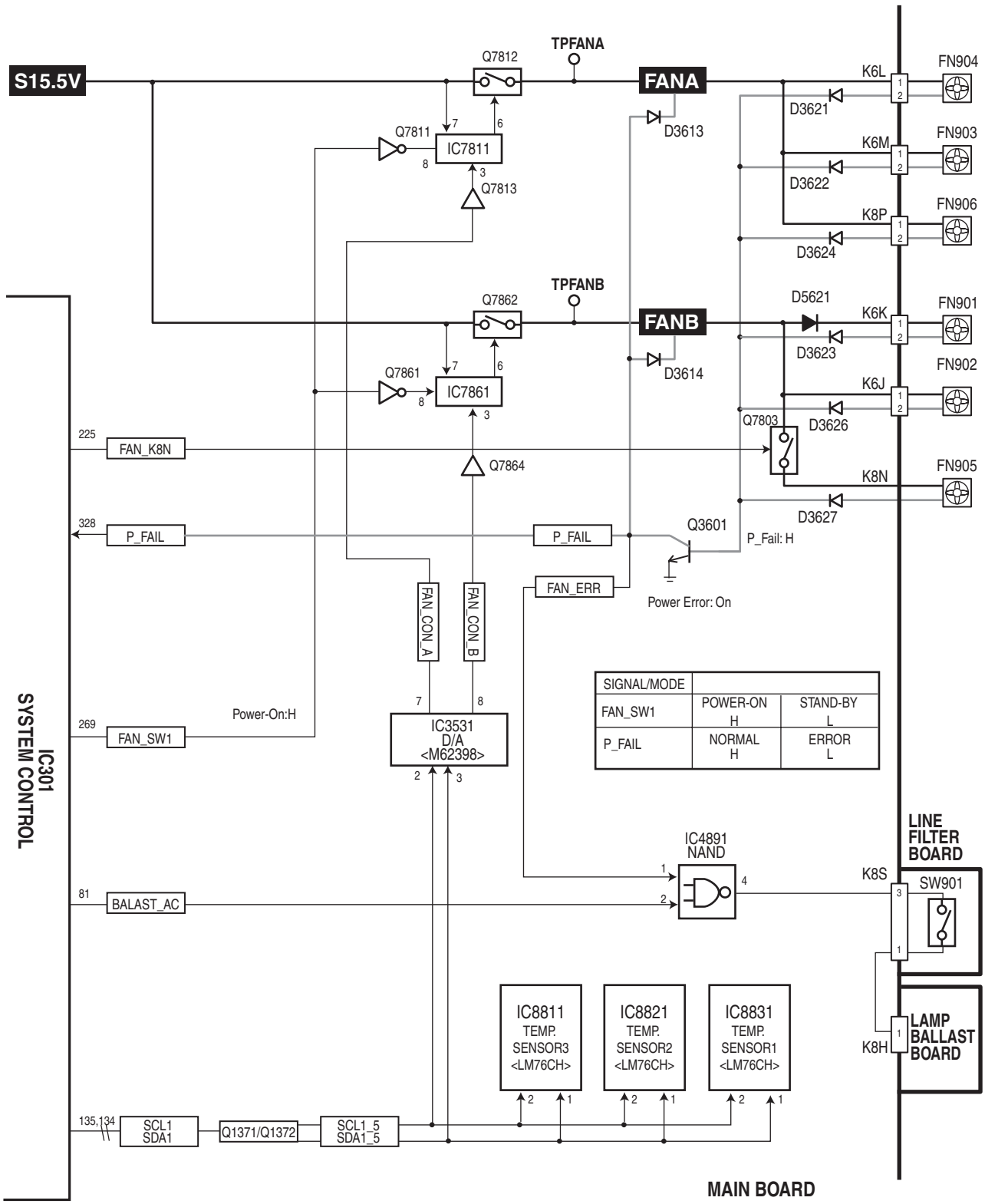
System control



Power supply & protection circuit



Fan control circuit



Troubleshooting

Indicators and Projector Condition

Check the indicators for projector condition.

Indicators			Projector Condition
POWER red/green	WARNING red	LAMP REPLACE yellow	
●	●	●	The projector is off. (The AC power cord is unplugged.)
◍ blinks	●	✱	The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed.
◍	●	✱	The projector is ready to be turned on with the POWER ON-OFF button.
○	●	✱	The projector is operating normally.
○ blinks	●	✱	The projector is in the Power management mode.
◍ blinks	◍ blinks	✱	The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator emits a red light and the projector can be turned on. (The WARNING indicator keeps blinking.) Check and clean the air filters.
◍	◍ blinks	✱	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking. Check and clean the air filters.
●	◍	✱	The projector detects an abnormal condition and cannot be turned on. Check power supply circuit and fans control circuit.

○ • • • green. ◍ • • • red ● • • • off

○ blinks • • • blinks green. ◍ blinks • • • blinks red.

✱ When the life of the projection lamp draws to an end, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp replacement counter after replacement of the lamp.

No Power

This projector provides a function which can be specified a defective area simply by indicating the LEDs. Connect the AC cord and press the Power button once and then check the LED indication.

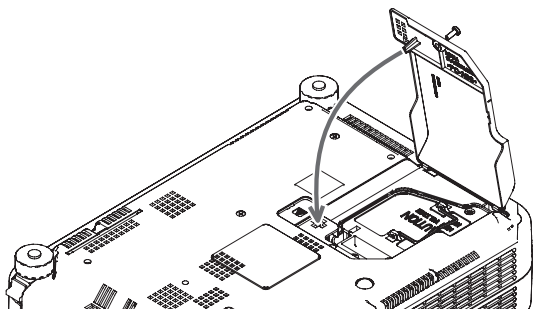
- **When all of LED indicators are not lighting,** the symptom indicates that the primary power supply circuit does not operate properly. Check the power primary circuit and parts as follow;
  AC cord
  F601 (Fuse)
  Power board
  SW902 (Thermal sw.).....short in normal
  SW902 opens when the surrounding temperature of the switch exceeds 105°C.

- **When the WARNING (red) and POWER(red) indicators are flashing,** the symptom indicates that the projector detected an abnormal temperature risen inside the projector. Check the air filters and remove the object near the intake and exhaust fan openings, and wait until the POWER indicator stops flashing, and then try to turn on the projector.
  The internal temperature is monitored by sensor ICs, IC8801, IC8821 and IC8831 on the Main board.

- **When the WARNING indicator lights red**, the symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.
  The P_FAIL signal (Error: L) is sent to pin 382 of IC301<SYSTEM CONTROL> when the abnormality occurred inside the projector, and then the IC301 sends the shut down signals, DC_ON and LAMPDC_ON, to the power supply circuit to stop its operation, and signal BALAST_AC to the lamp ballast board via IC4891 and SW901<lamp cover switch> to stop operation of the lamp circuit.
  An abnormality occurs on the secondary power supply;
  Check power supplies 15.5V, S15.5V, S6V, S-5V. P_FAIL signal becomes “Low” when the abnormality occurs on any of the power supply lines.
  An abnormality occurs on the fan control circuit;
  Check FN901, FN902, FN903, FN904, FN905, FN906 and peripheral circuit.
  If any of the fans has an error, the fan lock signal drives Q3601 becomes on. As the result, signal FAN_ERR becomes Low and is sent to lamp ballast board to stop lamp circuit.
  An abnormality occurs on the drive signals;
  DC_ON signal (Power-on: H) is output from pin 72 of IC301 and supplied to power supply circuit.
  LAMPDC_ON signal (Power-on: H) is output from pin 73 of IC301 and supplied to the P.F Control IC, IC621, on the power supply board through Q651, and PC643.
  BLAST_AC signal (Power-on: H) is output from pin 81 of IC301 and applied to pin 2 of IC4891 and output pin 4 and then supplied to the lamp ballast board through the Lamp Cover switch(SW901).
  CHO_RXD signal at the pin 140 of IC301 is applied from the lamp ballast unit. If the abnormality occurred on the lamp ballast unit, CHO_RXD signal becomes “High” and then IC301 shuts down the power supply circuit.

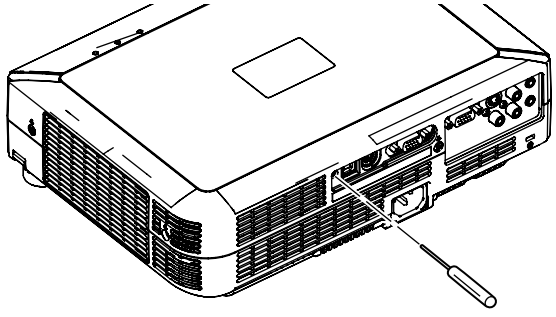
Lamp Cover switch

Make sure that the lamp cover is mounted correctly. If not or the lamp cover removed, the lamp does not light on for the safety. Check the lamp cover and lamp cover switch (SW901).



Reset switch

The microprocessor inside the projector may occasionally malfunction and does not accept any controls. In this case, press the reset switch on the rear panel with a sharp tool to restart the projector.



No Picture

Check following steps.

No picture with all of input sources

Yes →

Check signal processing stage and LCD driving stage;
- Check RGB S&H signals at test points TPB1, TPG1, TPR1.
- Check power supply circuit 15.5V and peripheral circuit.
- Check ICs IC501, IC531, IC561, IC401, IC301 and peripheral circuits.

No ↓

No picture with PC1 input source only

Yes →

Check PC1/PC2-switching stage;
- Check IC5201<PC1/PC2-SW> and peripheral circuit.
- PC1/PC2_SW signal (PC1: L) is output from pin 98 of IC1801<I/O EXPANDER> and applied to pin 26 of IC5201.
  - PC1:L, PC2:H

No ↓

No picture with PC2 input source only

Yes →

Check PC1/PC2-switching stage;
- Check IC5201<PC1/PC2-SW> and peripheral circuit.
- PC1/PC2_SW signal (PC2: H) is output from pin 98 of IC1801<I/O EXPANDER> and applied to pin 26 of IC5201.
  - PC1:L, PC2:H
- MONIT_OUT signal (Monitor-Out:H) is output from pin 139 of IC301<System Control> and applied to pins 1 and 7 of IC4071<Sync SW> and pins 3, 6, 16 of IC 4001.
  - Monitor-Out: H

No ↓

No picture with all of computer input sources

Yes →

Check PC/AV source selecting stage and processing stage;
- Check IC5201<PC1/PC2_SW> and IC8201<A/D Conversion> and peripheral circuit.

No ↓

No picture with video input sources →

Check AV source selecting and decoding stage;

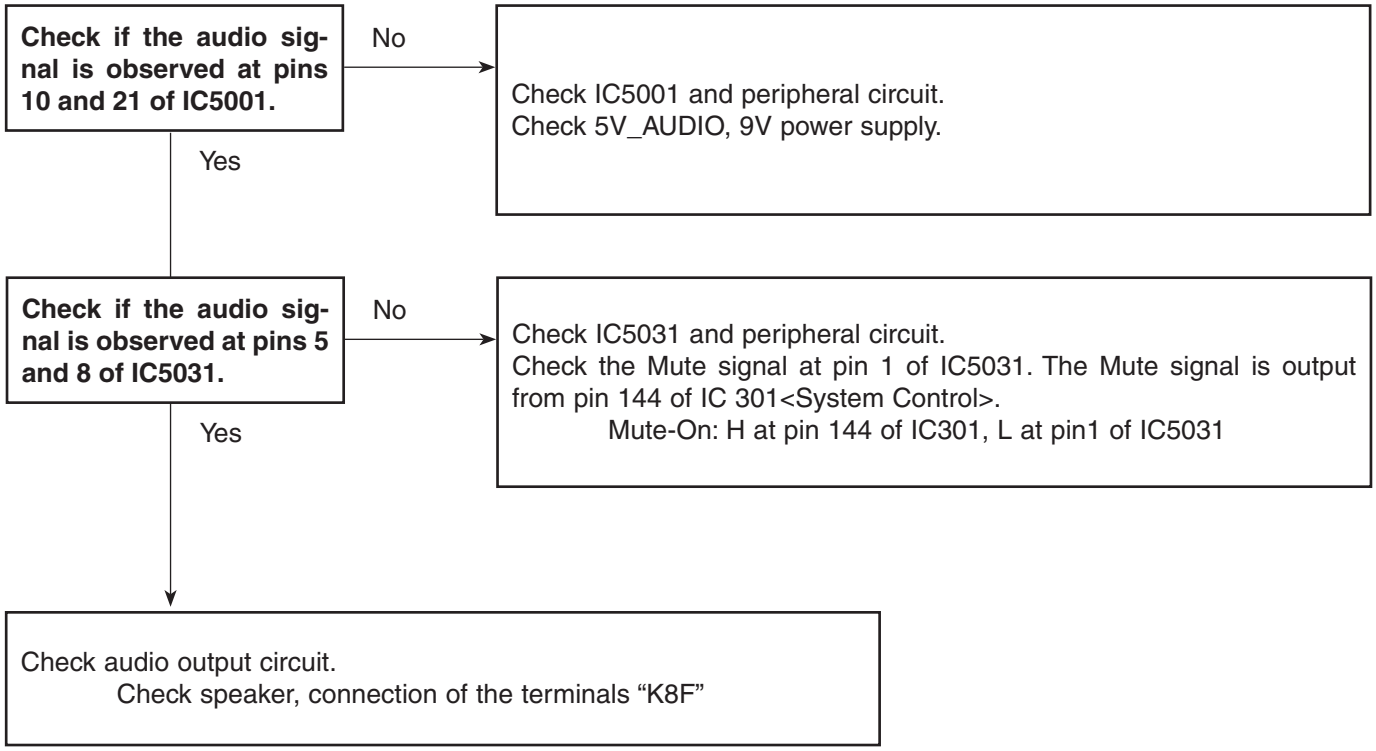
S-Video source
- Check S-video signal (Y/C).
- S-C signal is applied to pin 128 of IC101<Video Decoder>, and S-Y signal is applied on pin 121 of IC101.
- S_SW signal (S-VIDEO:L) is input to pin 8 of IC1801<I/O EXPANDER>.
- Check component signal (Y/Cr,Pr/Cb,Pb).

Component video source
- The component signals are applied to pins 139, 132, 123 of IC101<Video Decoder>.
- The component mode is selected by the SCL0 and SDA0 signal applied to pins 67 and 68 of IC101.

Composite video source
- Check composite video signal (Video).
- The composite video signal is applied to pins 119 of IC101<Video Decoder>.

No Sound

Check following steps.


Check if the audio signal is observed at pins 10 and 21 of IC5001.
No
Check IC5001 and peripheral circuit.
Check 5V_AUDIO, 9V power supply.
Yes
Check if the audio signal is observed at pins 5 and 8 of IC5031.
No
Check IC5031 and peripheral circuit.
Check the Mute signal at pin 1 of IC5031. The Mute signal is output from pin 144 of IC 301<System Control>.
Mute-On: H at pin 144 of IC301, L at pin1 of IC5031
Yes
Check audio output circuit.
Check speaker, connection of the terminals “K8F”

Control Port Functions

System Control I/O Port Functions (IC301)

PIN No.	PIN NAME	PORT	SIGNAL	DESCRIPTION	I/O
81	E1	IN0GO3	BLAST_AC	Ballast Drive Power-On: H	O
80	F1	IN0GO7	ON_3.3V	3.3V Drive On: H	O
157	F2	IN0GO5	15V_ON	15V Drive On: H	O
79	G1	IN0BO3	PANEL_OPT	Panel Optioin H: XGA, L:SVGA	I
225	G3	IN0GO9	FAN_K8N	Fan Drive On: H	O
155	H2	IN0BO4	CARD_IN		I
77	J1	IN0VS	GVS		I
223	J3	IN0HS	GFBK		I
284	J4	IN0GO8	ON_5VA	5VA Drive On: H	O
76	K1	IN0BO5	W_LAN_IN	Wireless LAN Option	I
153	K2	IN0CST	GCOAST		I
222	K3	IN0CLP	GBLKSPL		I
75	L1	IN0AHS	GHS		I
282	L4	IN0CLK	GCLK		I
73	N1	IN0GO6	LAMPDC_ON	On: H	O
72	P1	IN0GO2	DC_ON	On: H	O
278	R4	IN1PEN	VPEN		I
216	T3	IN1R9	IRM_STB		O
215	U3	IN1CLK	VCLK		I
327	V6	ADC2	KEY3	Key Input	I
326	V7	XO	XO		O
316	V17	DCLK	DCLK		O
315	V18	DHS	DHS		O
258	V19	DVS	DVS		O
67	W1	IN1R3	SH_G_STB		O
144	W2	IN1R5	AUDIO_MUTE	Audio Mute Output Mute-On: H	O
275	W4	IN1R2	SH_R_STB		O
271	W7	XI	XI		I
269	W9	IN0RO8	FAN_SW1	Fan Control Switch	O
267	W11		IO RESET	Reset I/O Expander ICs	O
266	W12	PORTB5	SCLK		O
265	W13	TXD	TXD_PW	Serial Control TXD	O
66	Y1	TXD1	CHO_TXD	Ballast Control TXD	O
212	Y3	IN1FIELD	VFIELD		I
211	Y4	IN1VBI	VBLK		I
328	V5	IN0BO2	P_FAIL	Power Failure Detection Input	I
209	Y6	LVDSEN	LVDSEN		O
207	Y8	NMI	NMI		I
206	Y9	PORTA0	WARINIG_LED	WARNING LED Drive On: H	O
202	Y13	RXD	RXD_PW	Serial Control RXD	O
65	AA1	IN1AHS	VHS		I
141	AA3	IN1R7	IRM_RST		O
140	AA4	RXD1	CHO_RXD	Ballast Control RXD	O
139	AA5	IN1R6	MONIT_OUT	Monitor Out Switch Montor-Out: H	O
138	AA6	ADC0	KEY1	Key Input	I
136	AA8	RESETB	RESET	Reset Input	I
135	AA9	PORTA3	PWR_LED	POWER LED Drive On: H	O
134	AA10	PORTA2	READY_LED	READY LED Drive On: H	O
63	AB2	IN1VS	VVS		I
61	AB4	IN1R8	3L_EN		O
60	AB5	IN1R4	SH_B_STB		O
59	AB6	IN1HS	VHS		I
58	AB7	ADC1	KEY2	Key Input	I
57	AB9	PORTB4	EXTRSTEN		
54	AB10	PORTA5	LAMPREP_LED	LAMP REPLACE LED Drive On: H	O
53	AB11	PORTA1	CABLE_SW		O
52	AB12	PORTA4	IRRCVR0	Remote Control Signal Input	I

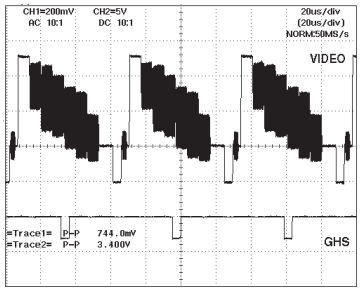
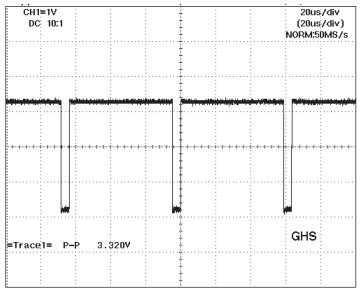
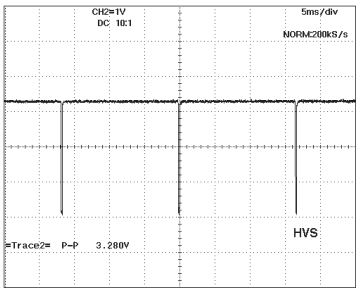
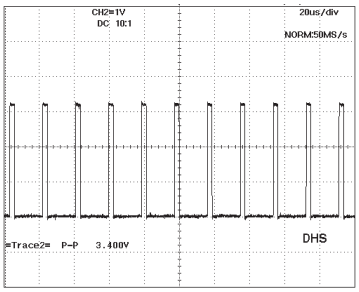
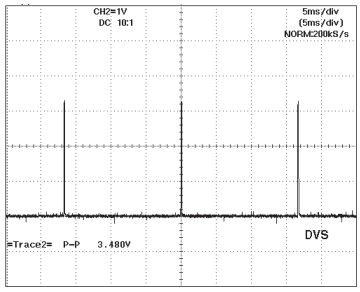
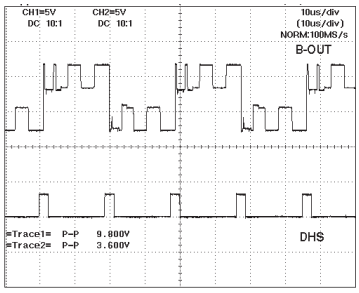
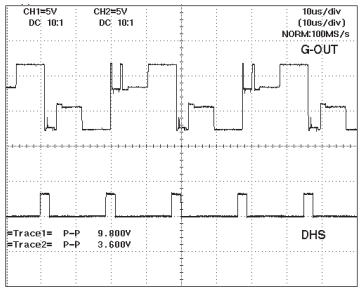
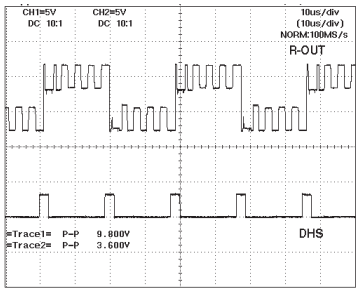
I/O Expander Port Functions (IC1801)

PIN NO.	NAME	FUNCTION	ACTION	I/O
8	P7	S_SW	Scart switch H: Scart	O
20	XCS	CS0		I
21	XRD	RD		I
22	XWR	WR		I
34	WAKEUP	WAKEUP		I
36	RST	RESET	L- H: Reset	I
38	XI	XTAL IN		I
39	XO	XTAL OUT		O
48	P21	DDC_SW2	n/a	O
49	P22	ECO_SW	n/a	O
50	P23	S/CV_SW	S-Video/Video Switch H: Composite Video-in	O
51	P24	SC_SW	SCART In Switch H: Scart In	O
52	P25	RESET_N		O
53	P26	LED_SW	LED Drive Switch H: On	O
54	P27	USB_VBUS		I
61	AIN1	Option Switch		I
62	AIN2	Option Switch		I
63	AIN3	Option Switch		I
64	AIN4	Option Switch		I
65	AIN5	Option Switch		I
66	AIN6	Option Switch		I
67	AIN7	Option Switch		I
68	AIN8	Option Switch		I
79	P39	I/O_R/C		I
81	DMINUS	USB_D-		I
82	DPLUS	ISB_D+		I
91	P11	SCLK_I/O		I/O
92	P12	SDATA_I/O		O
98	P16	PC1/PC2_SW	L: PC1, H: PC2	O
99	P17	PCAV_SW	n/a	O
100	P18	DVI_SW	n/a	O

IIC Bus DA Converter Port Functions (IC3531)

PIN NO.	NAME	FUNCTION	ACTION	I/O
1	R	Reset	"H": Fixed	I
2	SCL	IIC SCL	"L": Active	I/O
3	SDA	IIC SDA	"L": Active	I/O
4	Ao7	REF_R		O
5	Ao8	REF_G		O
6	Ao9	REF_B		O
7	Ao10	FAN_CONT_A	0xFFh:min 0x00h:Max	O
8	Ao11	FAN_CONT_2	0xFFh:min 0x00h:Max	O
9	Ao12	Not used		O
10	VrefL		Lower Ref. Voltage for D/A Convertor GND	I
11	VrefU1		Lower Ref. Voltage for D/A Converter(CH7~CH12)Vcc(Standby 5V)	I
12	GND	GND	GND	I
13	VrefU2		Upper Ref. Voltage for D/A Convertor CH1~CH6)Vcc(Standby 5V)	I
14	Ao1	Not used		O
15	Ao2	Not used		O
16	Ao3	Not used		O
17	Ao4	R_V1	Video signal reference voltage R	O
18	Ao5	G_V1	Video signal reference voltage B	O
19	Ao6	B_V1	Video signal reference voltage B	O
20	Vcc	Power for Digital	Vcc(Standby 5V)	I
21	Vdd	Power for Analog	Vcc(Standby 5V)	I
22	CS2	Chip Select 2	"H": Fixed	I
23	CS1	Chip Select 1	"H": Fixed	I
24	CS0	Chip Select 0	"L": Fixed	I

Waveform

CVBS <TCV>	HSYNC signal <TGHS>	VSYNC signal <TVGS>
		
HSYNC signal <TDHS>	**VSYNC signal <TDVS>**	
		
R-S&H signal <TPR1>	**G-S&H signal <TPG1>**	**B-S&H signal <TPB1>**
		

Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

1. Remove the cabinet top following to “Mechanical Disassemblies”.
2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:
Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be vary careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

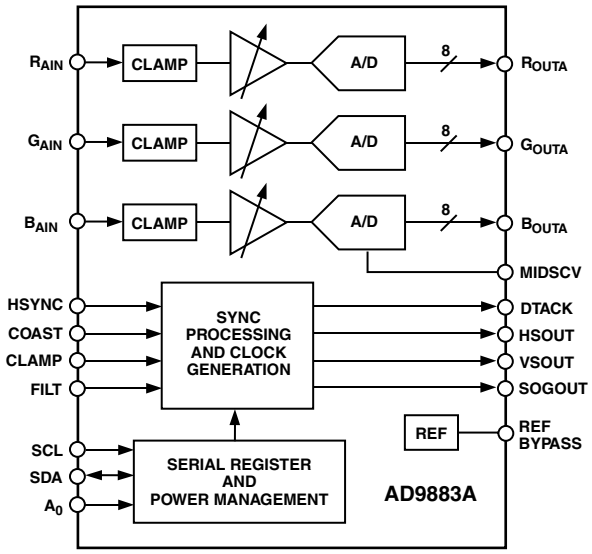
Disassembly cleaning method should only be performed when the unit is considerable dirty and cannot be sufficiently cleaned by air spraying alone.
Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to “Mechanical Disassemblies”.
2. Remove the optical base top following to “Optical Unit Disassemblies”. If the LCD panel needs cleaning, remove the LCD panel unit following to “LCD panel replacement”.
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

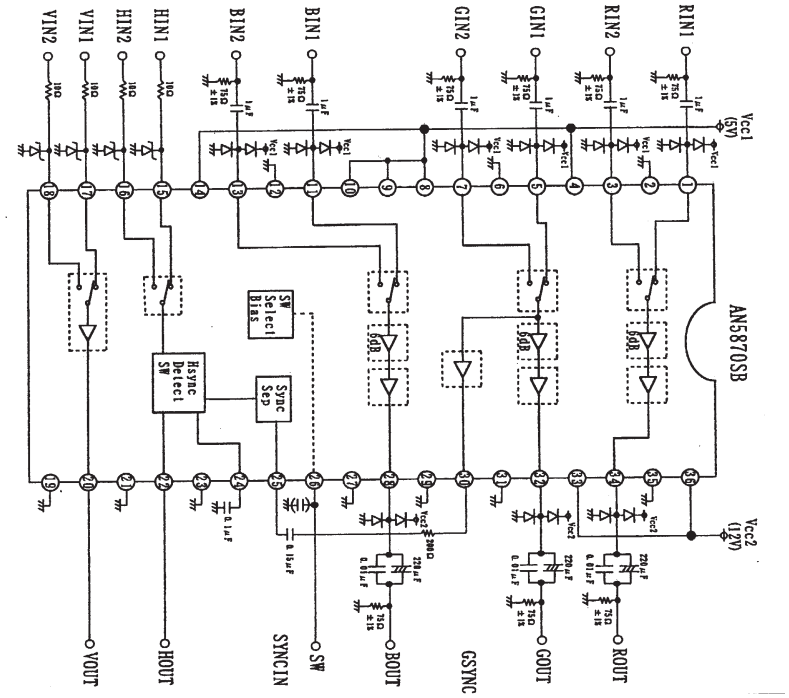
Caution:
The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.
Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

IC Block Diagrams

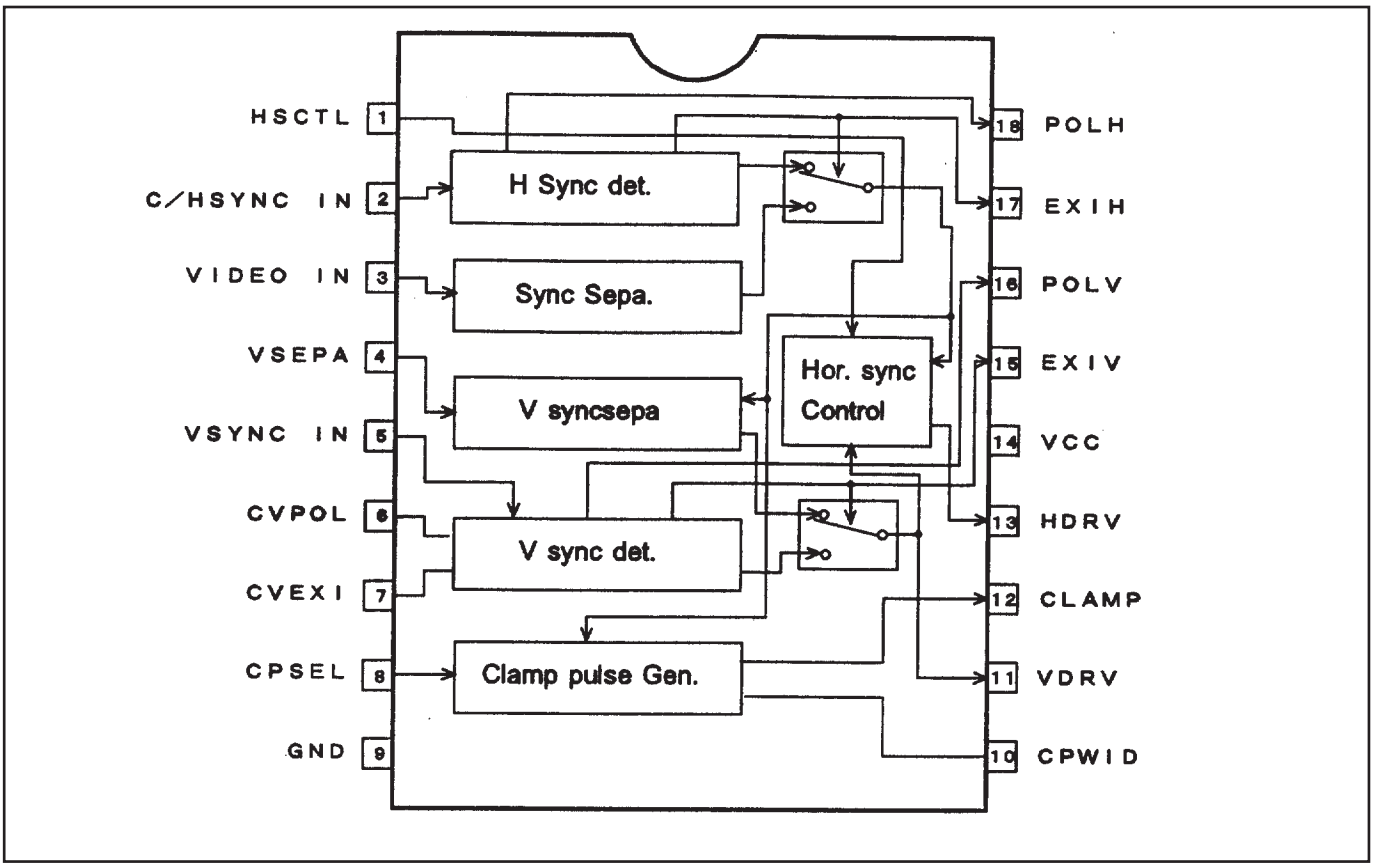
● AD9883 <A/D, IC8201>



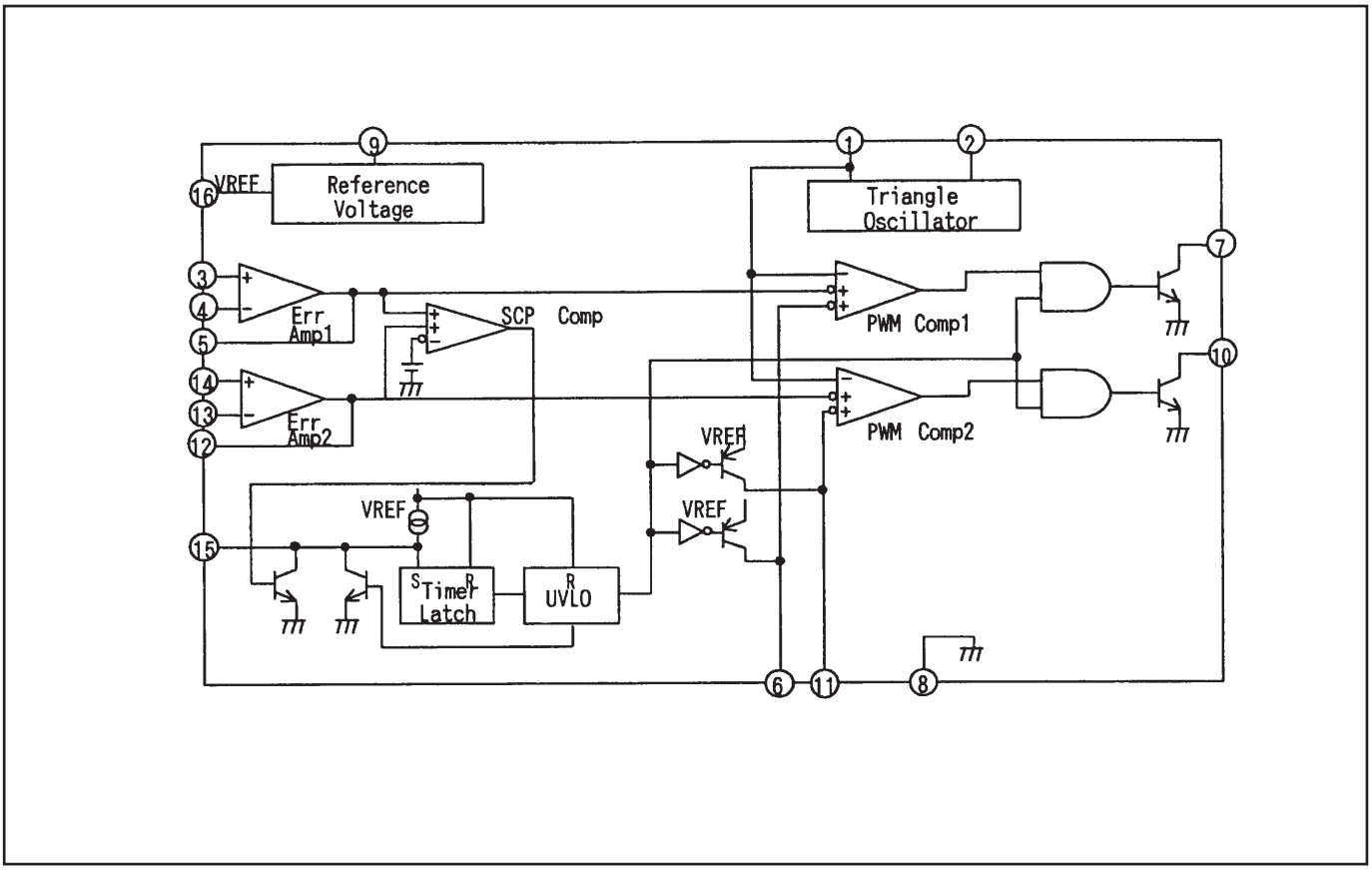
● AN5870 <RGB,SYNC-SW, IC5201>



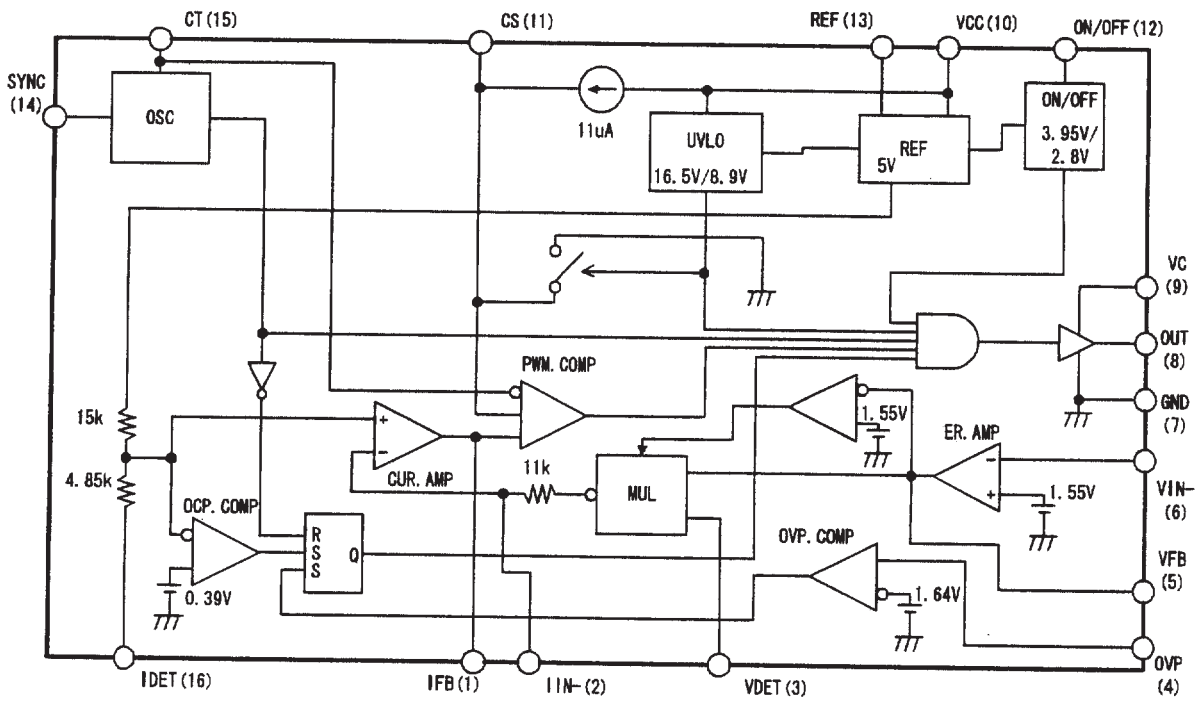
● BA7078 <Sync Separator, IC5301>



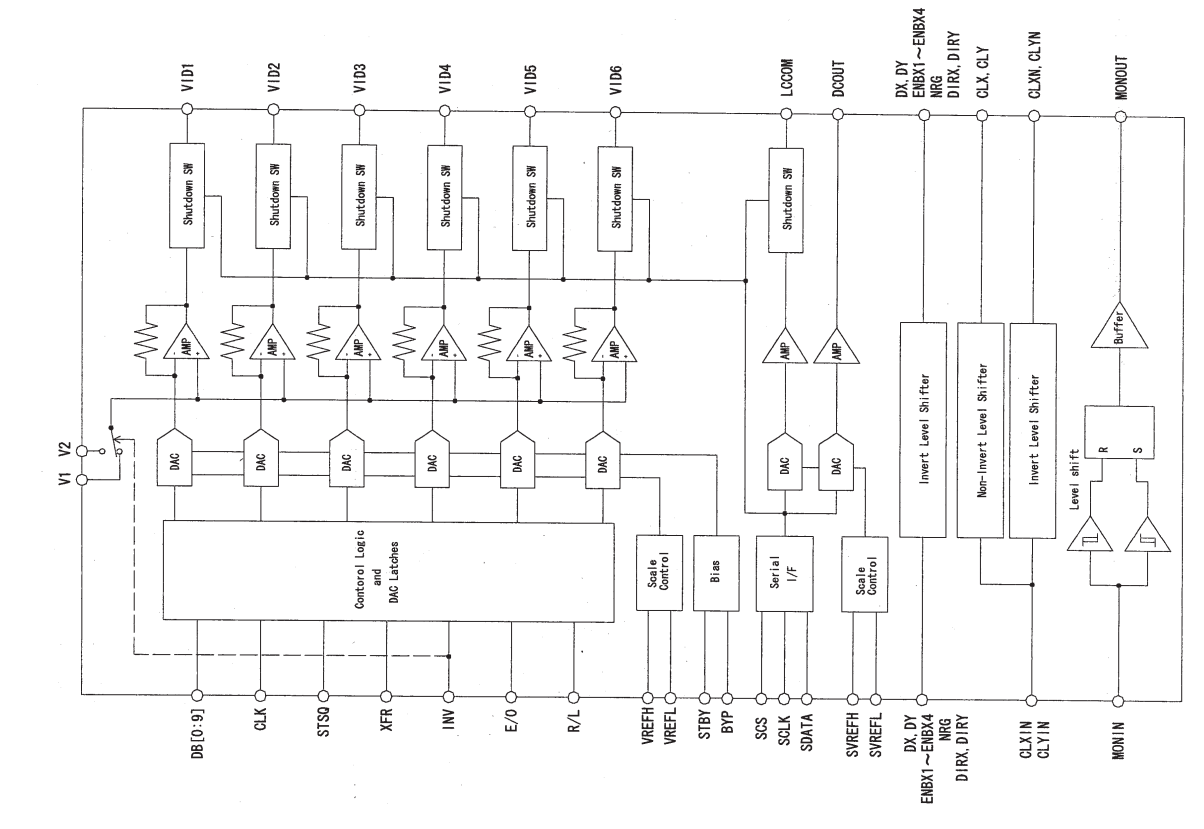
● BA9743<DDC Control, IC5651>



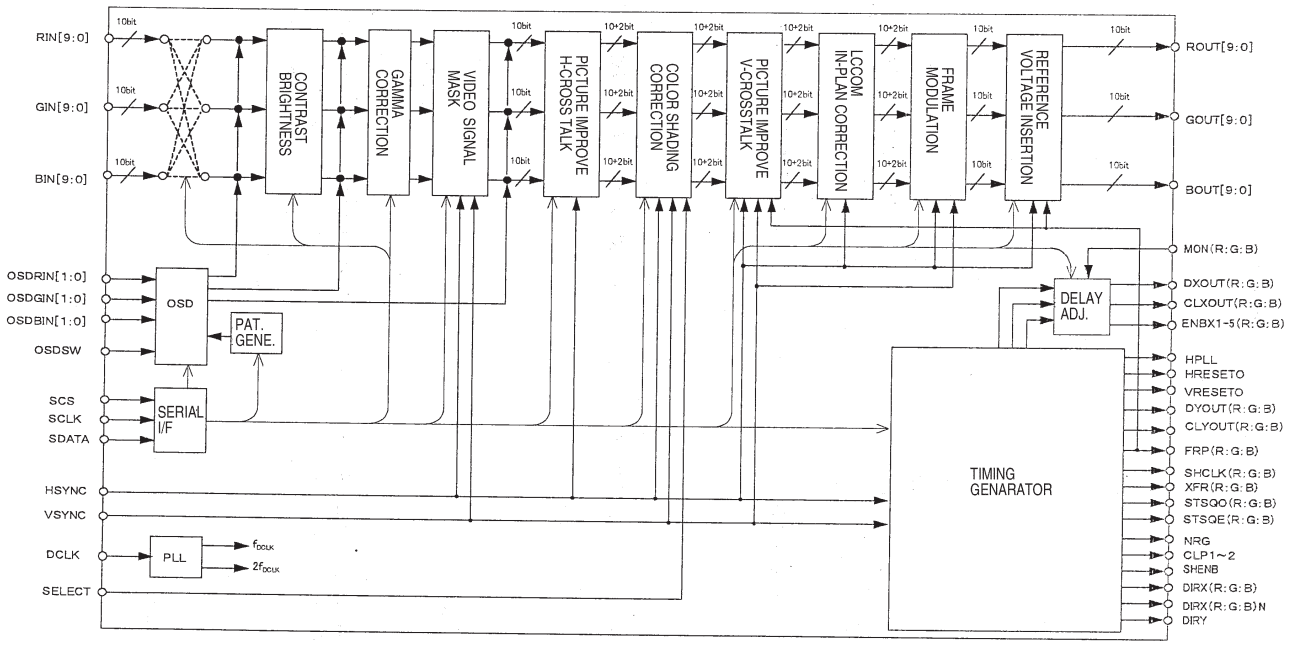
● FA5502 <P.F. Control, IC621>



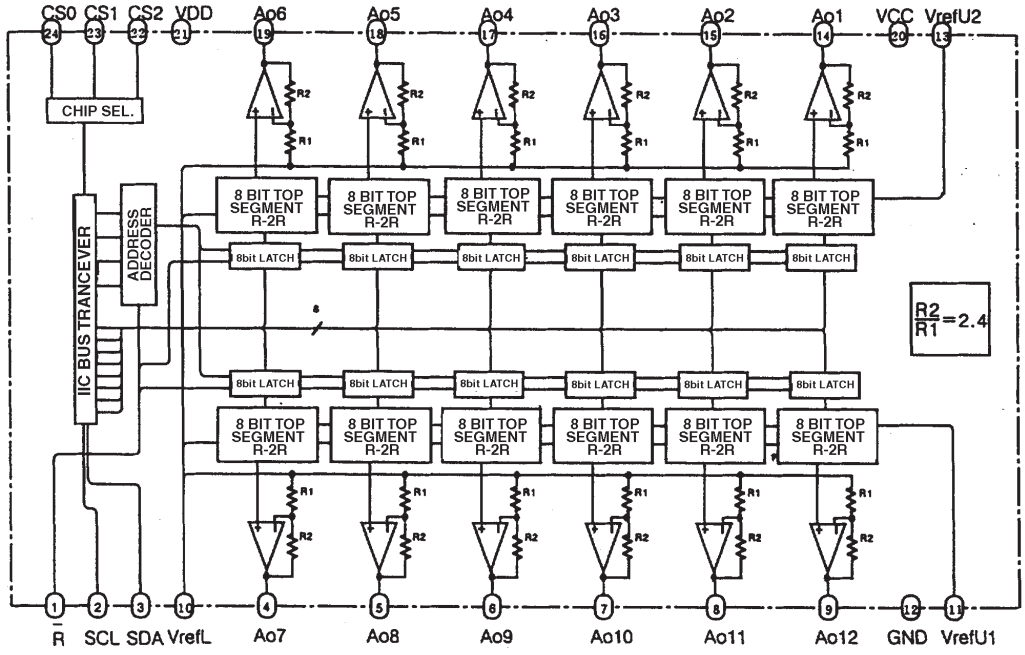
● L3E6100D <D/A, S/H-LCD Driver, IC501, IC531, IC561>



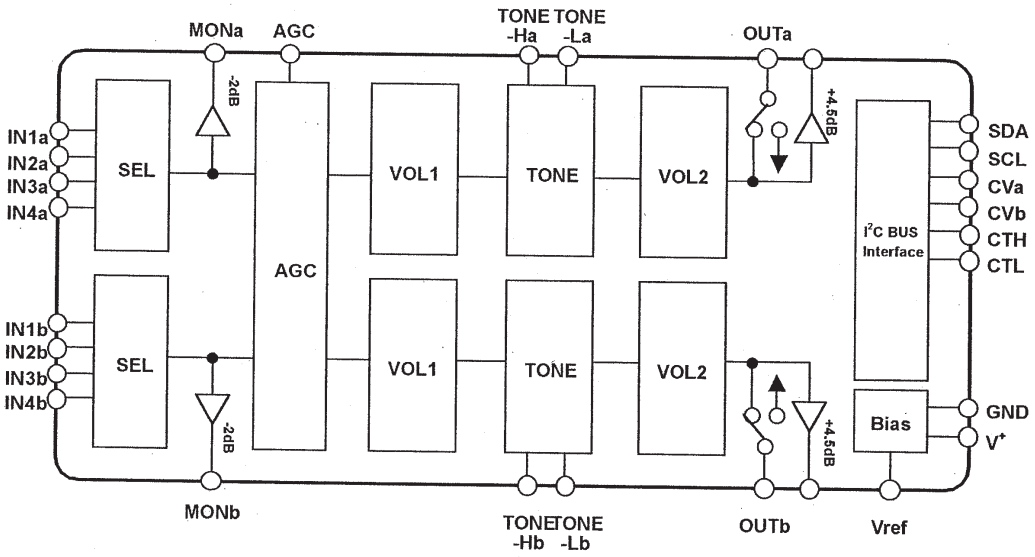
● L3E07072 <LCD Driver & Gamma Correction, IC401>



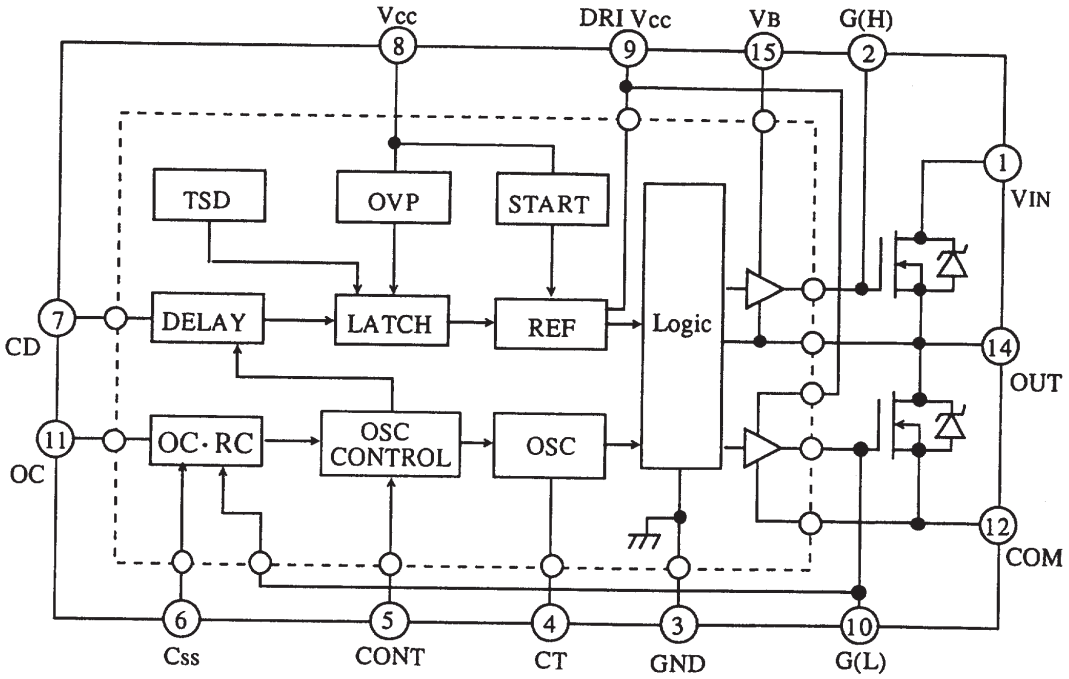
● M62399 <D/A, IC3531>


CS0 CS1 CS2 VDD Ao6 Ao5 Ao4 Ao3 Ao2 Ao1 VCC VrefU2
24 23 22 21 19 18 17 16 15 14 20 13
CHIP SEL.
IIC BUS TRANCEVER
ADDRESS DECODER
8 BIT TOP SEGMENT R-2R
8bit LATCH
R2
R1
R2/R1=2.4
R̄ SCL SDA VrefL Ao7 Ao8 Ao9 Ao10 Ao11 Ao12 GND VrefU1
1 2 3 10 4 5 6 7 8 9 12 11

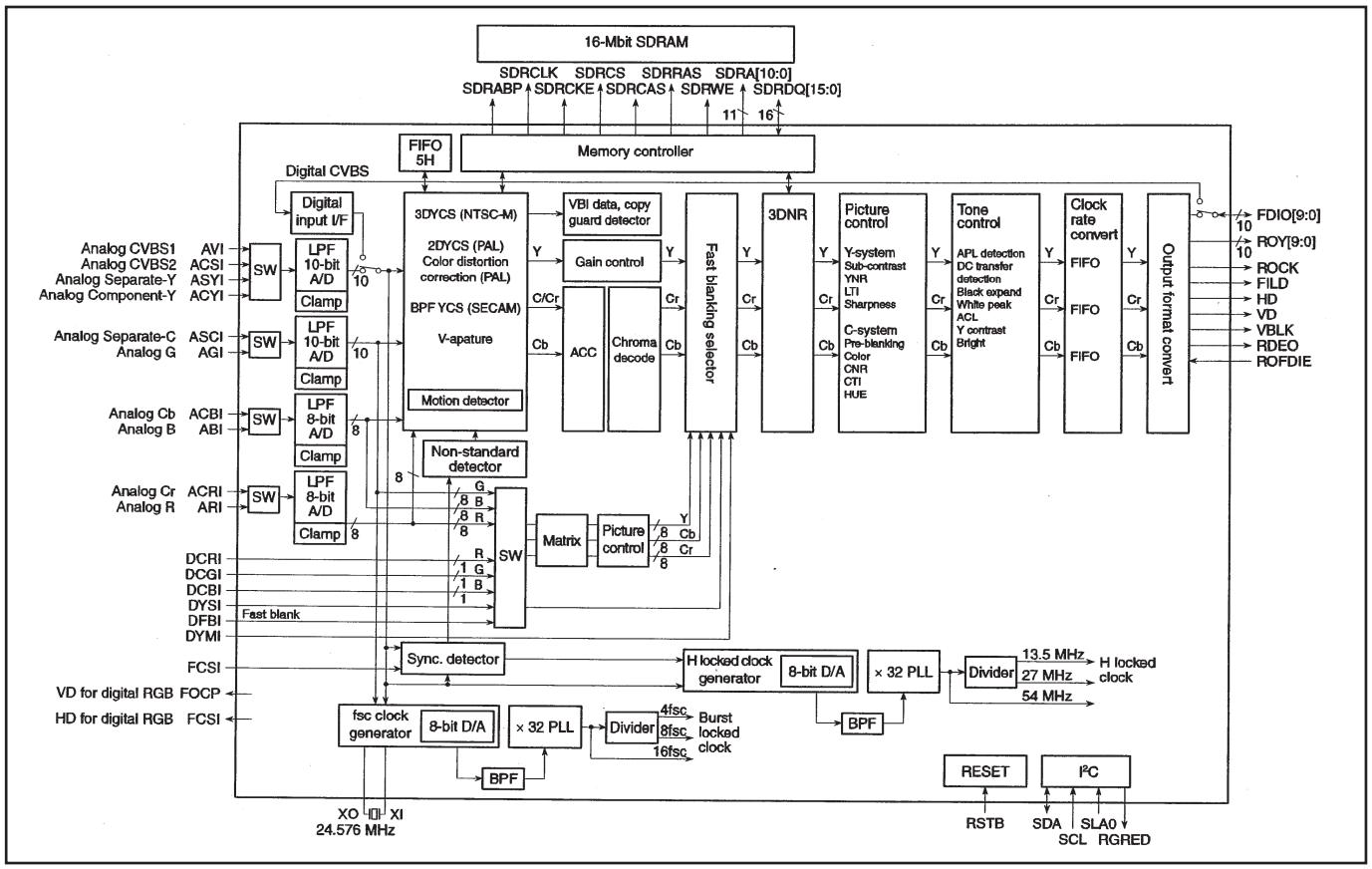
● NJW1141 <Audio Control, IC5001>



● STR-Z2156A <Power Switching, IC631>



● uPD64012 <Video Decoder, IC101>



Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector.
Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR CERAMIC 100P K 50V

- 50V — Rated Voltage
- K — Tolerance Symbols:

Less than 10pF

A : Not specified	B : ±0.1pF	C : ±0.25pF
D : ±0.5pF	E : +0 -1pF	F : ±1PF
G : ±2pF	H : +0.1 -0pF	L : +0 -0.1pF
R : ±0.25 -0pF	S : +0-0.25pF	

More than 10pF

A : Not specified	B : ±0.1%	C : ±0.25%
D : ±0.5%	F : ±1%	G : ±2%
H : ±3%	J : ±5%	K : ±10%
L : ±15%	M : ±20%	N : ±30%
P : +100-0%	Q : +30-10%	T : +50-10%
U : +75-10%	V : +20-10%	W : +100-10%
X : +40-20%	Y : +150-10%	Z : +80-20%

- 100P — Rated value: P=pico farad, U=micro farad
- CERAMIC — Material:

CERAMIC	Ceramic
MT-PAPER	Metallized Paper
POLYESTER	Polyester
MT-POLYEST	Metallized Polyester
POLYPRO	Polypropylene
MT-POLYPRO	Metallized Polypropylene
COMPO FILM	Composite film
MT-COMPO	Metallized Composite
STYRENE	Styrene
TA-SOLID	Tantalum Oxide Solid Electrolytic
AL-SOLID	Aluminium Solid Electrolytic
ELECT	Aluminum Foil Electrolytic
NP-ELECT	Non-polarised Electrolytic
OS-SOLID	Aluminium Solid with Organic Semiconductive Electrolytic
POS-SOLID	Polymerized Organic Semiconductive
DL-ELECT	Double Layered Electrolytic
PPS-FILM	Polyphenylene Sulfide Film
MT-PPS-FILM	Metalized Polyphenylene Sulfide Film
MT-PEN-FILM	Metalized Polyethylenenaphthalate Film
CAPACITOR	Other

RESISTOR CARBON 4.7K J A 1/4W

- 1/4W — Rated Wattage
- A — Performance Symbols:
  A: General B: Non flammable Z: Low noise
  Other: Temperature coefficient

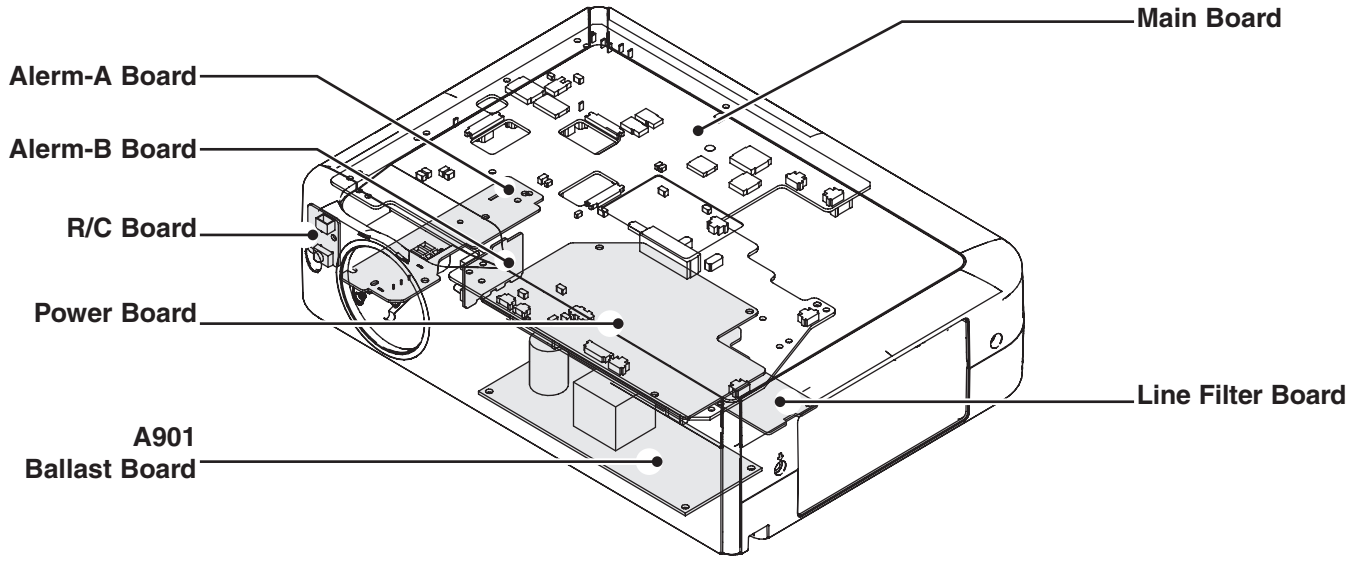
T: ±10ppm/°C	U: ±25ppm/°C	C: ±50ppm/°C
D: ±100ppm/°C	E: ±200ppm/°C	F: ±250ppm/°C
G: ±350ppm/°C	H: ±1000ppm/°C±10%	W: ±1200ppm/°C±10%
Y: ±1400ppm/°C±10%	J: ±2000ppm/°C±10%	K: ±2400ppm/°C±10%
L: ±2700ppm/°C±10%	M: ±3000ppm/°C±10%	N: ±3300ppm/°C±10%
P: ±3600ppm/°C±10%	Q: ±3900ppm/°C±10%	R: ±4200ppm/°C±10%
S: ±4300ppm/°C±10%	V: ±4500ppm/°C±10%	X: ±8000ppm/°C±10%

- J — Tolerance Symbols:
  A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5%
  F: ±1% G: ±2% J: ±5% K: ±10%
  M: ±20% P: +5-15% Z: 0 ohm
- 4.7K — Rated value, ohms:
  K: 1,000, M: 1,000,000
- CARBON — Material:

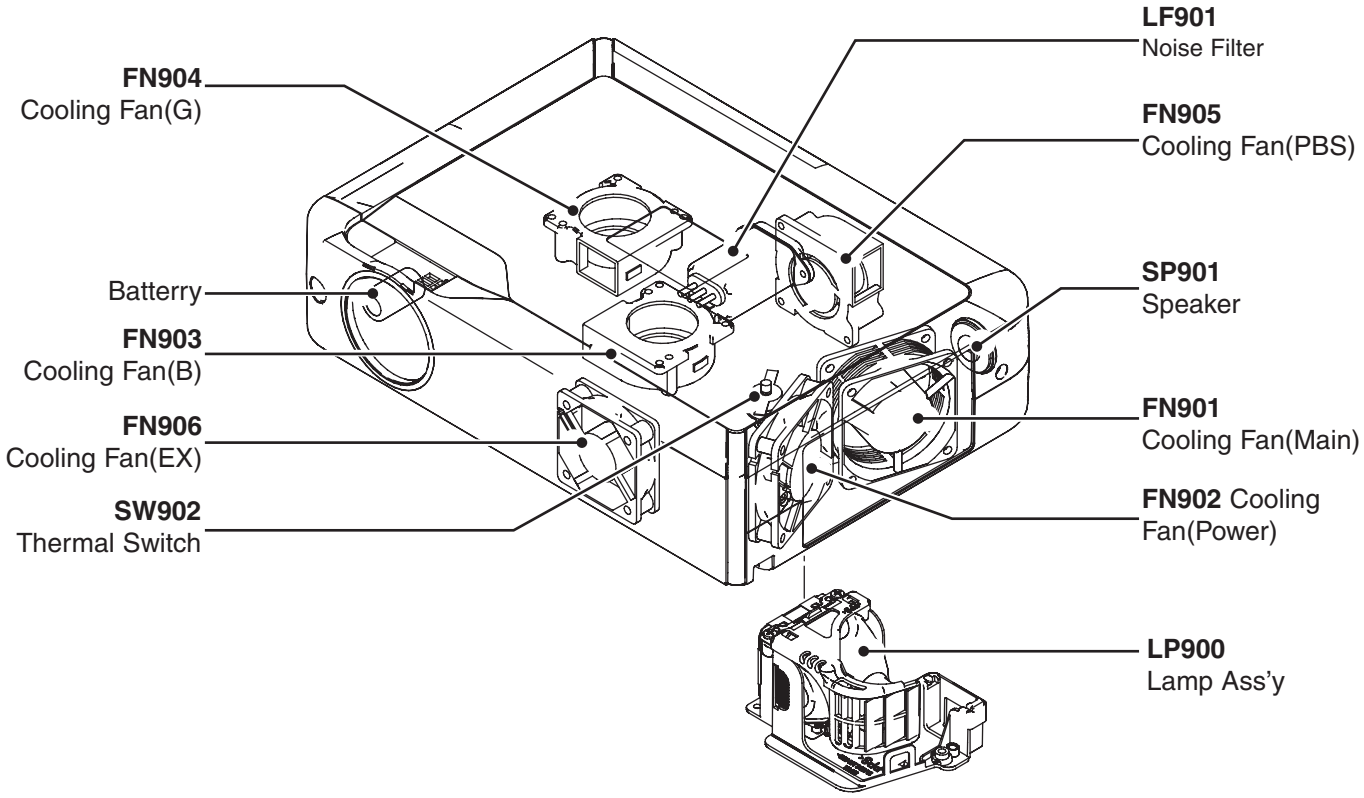
CARBON	Carbon
MT-FILM	Metal Film
OXIDE-MT	Oxide Metal Film
SOLID	Composition
MT-GLAZE	Metal Glaze
WIRE WOUND	Wire Wound
CERAMIC RES.	Ceramic
FUSIBLE RES.	Fusible
RESISTOR	Other

Electrical Parts Location

● **Assemblied Boards**



● **OUT OF CIRCUIT BOARD**



Electrical Parts List

Key No.	Part No.	Description

ASSEMBLIED BOARDS

⚠	610 323 0498	ASSY,PWB,POWER MT5A
⚠	610 326 1836	ASSY,PWB,LINE FILTER MT5A
⚠	610 329 0928	ASSY,PWB,MAIN LG6A
⚠	610 329 0904	ASSY,PWB,R/CS. LG6A
⚠	610 329 1253	ASSY,PWB,ALARM-A LG6A
⚠	610 329 1260	ASSY,PWB,ALARM-B LG6A

OUT OF CIRCUIT BOARD

⚠	LF901	645 078 6471	UNIT,NOISE FILTER
⚠	LP900	610 328 6549	COMPL,OPTICAL LAMP LG6A
⚠	A901	645 085 5009	UNIT,BALLAST
	A901A	610 326 1799	CABLE,BALLAST MY5A
⚠	FN901	945 054 9121	MOTOR,FAN DC 2.64W
⚠	FN902	645 079 7194	MOTOR,FAN DC 1.92W
⚠	FN903	945 062 3104	MOTOR,FAN DC 3.6W
⚠	FN904	945 062 3104	MOTOR,FAN DC 3.6W
⚠	FN905	945 062 3104	MOTOR,FAN DC 3.6W
⚠	FN906	645 078 5665	MOTOR,FAN DC 1.56W
	SP901	645 078 6105	SPEAKER,8
	SP901A	610 323 6766	HOLDER SPEAKER-MT5A
	SW902	645 079 2526	SWITCH,THERMAL(105DEG)

610 323 0498 ASSY,PWB,POWER MT5A

TRANSISTOR

Q601	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q602	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q611	305 140 3707	TR 2SK2698
Q621	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q622	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q642	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q643	305 211 5807	TR 2SK3561
Q651	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q661	305 047 9010	TR 2SB1204-S-TL
	305 047 9119	TR 2SB1204-T-TL
Q662	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S

INTEGRATED CIRCUIT

IC621	309 523 1413	IC FA5502M
IC631	309 558 4202	IC STR-Z2156A
IC651	309 344 6522	IC UPC1093T-E1

CAPACITOR

C605	303 164 0217	CERAMIC	0.1U Z	25V
C611	303 222 1326	CERAMIC	1000P K	1K
C612	303 222 1326	CERAMIC	1000P K	1K
C613	303 371 8518	MT-POLYEST	1U K	400V
	303 427 2019	MT-POLYEST	1U K	400V
C614	303 371 8518	MT-POLYEST	1U K	400V
	303 427 2019	MT-POLYEST	1U K	400V
C615	304 102 7104	ELECT	120U M	420V
C616	303 371 8617	MT-POLYEST	0.1U K	450V
	303 427 1814	MT-POLYEST	0.1U K	450V
C62A	303 157 3317	CERAMIC	68P J	50V
C62B	303 157 6615	CERAMIC	470P K	50V
C62C	303 374 4210	CERAMIC	0.33U K	10V
C62D	303 164 0217	CERAMIC	0.1U Z	25V
C62E	303 164 0217	CERAMIC	0.1U Z	25V
C62F	303 370 9110	CERAMIC	0.068U K	50V
C62I	303 149 9211	CERAMIC	0.01U Z	50V
C62J	303 169 2810	CERAMIC	330P J	50V
C62K	303 323 3615	CERAMIC	0.047U K	50V
C62M	303 164 0217	CERAMIC	0.1U Z	25V
C62R	303 417 9912	CERAMIC	4.7U K	25V
C62T	303 164 0217	CERAMIC	0.1U Z	25V
C631	303 268 7013	TA-SOLID	2.2U M	35V
C633	303 113 3818	CERAMIC	1000P K	50V
C634	303 247 3319	CERAMIC	330P K	2K
C635	303 167 8616	CERAMIC	220P K	2K
C636	303 070 2619	CERAMIC	0.1U Z	50V
C637	303 157 6813	CERAMIC	680P K	50V
C638	303 208 1415	TA-SOLID	1U M	25V
	303 411 5712	TA-SOLID	1U M	25V
C639	303 410 7618	ELECT	220U M	35V
C640	303 164 0217	CERAMIC	0.1U Z	25V
C641	303 352 8216	CERAMIC	0.47U Z	16V
C642	303 084 0311	POLYPRO	0.022U J	630V
C643	303 256 2419	CERAMIC	0.22U Z	50V
C644	303 437 4614	CERAMIC	10U K	25V

Electrical Parts List

Key No.	Part No.	Description		
C651	303 400 6822	ELECT	1000U M	25V
C652	303 427 6245	ELECT	1000U M	10V
C653	303 437 4713	ELECT	470U M	16V
C654	303 164 0217	CERAMIC	0.1U Z	25V
C655	303 164 0217	CERAMIC	0.1U Z	25V
C656	303 345 9619	CERAMIC	0.47U K	10V
C657	303 157 6417	CERAMIC	330P K	50V
C658	303 157 6417	CERAMIC	330P K	50V
C659	303 400 6822	ELECT	1000U M	25V
C660	303 164 0217	CERAMIC	0.1U Z	25V
C661	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C691	303 400 7136	ELECT	330U M	25V
C693	303 400 5023	ELECT	1000U M	10V
C694	303 400 3930	ELECT	1000U M	6.3V
RESISTOR				
R603	301 255 8517	MT-GLAZE	9.1K JA	1/10W
R604	301 256 6611	MT-GLAZE	68K JA	1/10W
R606	301 162 4015	MT-GLAZE	560 JA	1/10W
R607	301 162 2417	MT-GLAZE	1.2K JA	1/10W
R611	302 088 0102	RESISTER	0.15 KA	2W
R612	302 088 0102	RESISTER	0.15 KA	2W
R615	301 242 3914	MT-GLAZE	240K JA	1/2W
R616	301 242 3914	MT-GLAZE	240K JA	1/2W
R617	301 259 9015	MT-GLAZE	150K FA	1/2W
R618	301 259 9015	MT-GLAZE	150K FA	1/2W
R619	301 259 9015	MT-GLAZE	150K FA	1/2W
R61A	301 275 2915	MT-GLAZE	68K JA	1W
R61B	301 275 2915	MT-GLAZE	68K JA	1W
R61E	301 275 2915	MT-GLAZE	68K JA	1W
R61F	301 275 2915	MT-GLAZE	68K JA	1W
R620	301 259 9015	MT-GLAZE	150K FA	1/2W
R623	301 162 3711	MT-GLAZE	4.7K JA	1/10W
R62A	301 256 3818	MT-GLAZE	1.5K JA	1/10W
R62B	301 150 5918	MT-GLAZE	10K JA	1/10W
R62C	301 162 3810	MT-GLAZE	470K JA	1/10W
R62D	301 255 6810	MT-GLAZE	30K JA	1/10W
R62E	301 256 3719	MT-GLAZE	750 JA	1/10W
R62F	301 264 2810	MT-GLAZE	1.2K FA	1/10W
R62G	301 255 6513	MT-GLAZE	100 JA	1/10W
R62H	301 152 3219	MT-GLAZE	330 JA	1/10W
R62I	301 265 0914	MT-GLAZE	4.7 JA	1/10W
R62J	301 162 2714	MT-GLAZE	180 JA	1/10W
R62L	301 256 2613	MT-GLAZE	2.4K JA	1/10W
R62M	301 256 7519	MT-GLAZE	390 JA	1/10W
R62P	301 256 6314	MT-GLAZE	47K JA	1/10W
R62Q	301 255 8715	MT-GLAZE	22 JA	1/10W
R62R	301 256 4716	MT-GLAZE	5.6M JA	1/10W
R62T	301 255 9514	MT-GLAZE	220K JA	1/10W
⚠R631	324 006 1305	FUSE	250V	2.5A
R633	301 323 4618	MT(LEADFREE	15 JA	3/4W
R634	301 238 4512	MT-GLAZE	47 JA	1/3W
R635	301 150 6212	MT-GLAZE	1K JA	1/10W
R636	301 257 7419	MT-GLAZE	120 JA	1/3W
R637	301 162 3711	MT-GLAZE	4.7K JA	1/10W
R638	301 150 5918	MT-GLAZE	10K JA	1/10W
R639	301 256 2613	MT-GLAZE	2.4K JA	1/10W
R641	301 188 0718	MT-GLAZE	220K JA	1/4W
R646	301 150 5918	MT-GLAZE	10K JA	1/10W
R647	301 256 5911	MT-GLAZE	2.7K JA	1/10W
R648	301 256 3610	MT-GLAZE	15K JA	1/10W
R651	301 150 6212	MT-GLAZE	1K JA	1/10W
R652	301 162 2219	MT-GLAZE	10 JA	1/10W
R653	301 326 1713	MT-GLAZE	10K DA	1/10W
R654	301 152 3219	MT-GLAZE	330 JA	1/10W
R655	301 256 7311	MT-GLAZE	6.8K JA	1/10W
R656	301 256 6215	MT-GLAZE	270 JA	1/10W
R657	301 150 6212	MT-GLAZE	1K JA	1/10W
R658	301 150 6212	MT-GLAZE	1K JA	1/10W
R659	301 150 6212	MT-GLAZE	1K JA	1/10W
R660	301 162 3711	MT-GLAZE	4.7K JA	1/10W
R661	301 150 5918	MT-GLAZE	10K JA	1/10W
R662	301 230 8013	MT-GLAZE	1K JA	1/3W
R663	301 162 3711	MT-GLAZE	4.7K JA	1/10W
R664	301 150 5918	MT-GLAZE	10K JA	1/10W
VARIABLE RESISTOR				
VR611	945 025 7415	VR,SEMI,1K S		
TRANSFORMER				
⚠T651	645 077 6311	TRANS,POWER,PULSE		
COIL				
⚠L611	645 077 6571	LINE FILTER		
L612	645 077 6564	INDUCTOR,900U		
DIODE				
D611	307 191 3903	DIODE FML-G16S		
D612	307 164 4015	DIODE RB160L-40-TE25		
	307 149 6327	DIODE SFPB-54V		
D616	307 149 0810	DIODE 1SS355-TE-17		
D617	307 149 0810	DIODE 1SS355-TE-17		
D618	307 149 0810	DIODE 1SS355-TE-17		
D619	307 149 0810	DIODE 1SS355-TE-17		
D62R	307 149 0810	DIODE 1SS355-TE-17		
D631	307 247 8827	DIODE RF101L2S		
D633	307 221 7119	ZENER DIODE UDZS-TE-1712B		
D636	307 226 7114	DIODE SC311-06		
D651	307 222 9607	DIODE FMB-2306		
	307 250 2403	DIODE RB225T-60		
D652	307 222 9706	DIODE FMJ-23L		
	307 250 2502	DIODE RSX1001T3		
D653	307 247 8827	DIODE RF101L2S		
D654	307 209 1214	ZD UDZS-TE-176.2B		
DB611	307 202 7708	DIODE D10XB60		
MISCELLANEOUS				
FB611	610 244 3974	CORE		
FB613	610 244 3974	CORE		
FB691	610 244 3974	CORE		
FB693	610 244 3974	CORE		
FB694	307 210 5416	DIODE RB551V-30-TE-17		
⚠PC641	307 223 7315	PC TLP421F(D4-GB-TP4)		
	307 223 8312	PC TLP421F(D4-GR-TP4)		
⚠PC642	307 223 7315	PC TLP421F(D4-GB-TP4)		
	307 223 8312	PC TLP421F(D4-GR-TP4)		
⚠PC643	307 223 7315	PC TLP421F(D4-GB-TP4)		
	307 223 8312	PC TLP421F(D4-GR-TP4)		
PTH611	308 037 5501	THERMISTOR NTH11D5R0LC		
PTH612	308 053 9101	THERMISTOR PTFM04BC222Q2N34B0		

610 326 1836 ASSY,PWB,LINE FILTER MT5A

CAPACITOR				
⚠C601	304 104 9601	MT-POLYEST	0.22U K	275V
	304 104 9700	MT-POLYEST	0.22U M	275V
⚠C602	304 104 9601	MT-POLYEST	0.22U K	275V
	304 104 9700	MT-POLYEST	0.22U M	275V
RESISTOR				
⚠R601	301 287 9018	MT-GLAZE	470K JA	1W
⚠R602	301 287 9018	MT-GLAZE	470K JA	1W
VARIABLE RESISTOR				
⚠VA601	308 018 9801	VARISTOR ENC471D-14AS		

Electrical Parts List

Key No.	Part No.	Description
COIL		
⚠L601	945 050 2232	LINE FILTER
MISCELLANEOUS		
⚠F601	323 021 7804	FUSE 250V 6.3A
SW901	945 063 8078	SWITCH,PUSH 2P-2TX3
610 329 0928	**ASSY,PWB,MAIN LG6A**	
TRANSISTOR		
Q101	305 217 4913	TR RN1111 TE85L
Q1031	305 217 4913	TR RN1111 TE85L
Q1051	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q1061	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q1071	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q1801	305 191 5814	TR 3LN01C-TB-E
Q1802	305 191 5814	TR 3LN01C-TB-E
Q1803	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2011	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2021	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2031	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2501	305 002 8327	TR 2SA1203-Y-TE12L
Q2502	305 217 5019	TR RN1117 TE85L
Q3051	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q3581	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q3582	305 002 8327	TR 2SA1203-Y-TE12L
Q3601	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q3801	305 191 5814	TR 3LN01C-TB-E
Q4001	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q4011	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q4014	305 166 3210	TR RN1113-TE85L
Q4071	305 217 4913	TR RN1111 TE85L
Q5031	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5032	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5033	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0

Electrical Parts List

Key No.	Part No.	Description
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5034	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5036	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5061	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5062	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5063	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5064	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5081	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5203	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5251	305 217 5118	TR HN1A01FE-Y TE85L
Q5261	305 217 5118	TR HN1A01FE-Y TE85L
Q5271	305 217 5118	TR HN1A01FE-Y TE85L
Q5281	305 217 4913	TR RN1111 TE85L
Q5282	305 217 5217	TR RN1110 TE85L
Q5283	305 217 5217	TR RN1110 TE85L
Q5284	305 217 4913	TR RN1111 TE85L
Q5286	305 217 4913	TR RN1111 TE85L
Q5287	305 217 4913	TR RN1111 TE85L
Q5288	305 166 3210	TR RN1113-TE85L
Q5301	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5302	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q5303	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q5304	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5601	306 017 8405	TR RTQ025P02-TR
Q5611	306 017 8405	TR RTQ025P02-TR
Q6841	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6842	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6843	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6844	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6846	305 002 8327	TR 2SA1203-Y-TE12L
Q6847	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB

Electrical Parts List

Key No.	Part No.	Description
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q7801	305 217 5019	TR RN1117 TE85L
Q7803	305 128 9618	TR 2SC2411K-T146-Q
Q7811	305 217 5019	TR RN1117 TE85L
Q7812	305 217 8515	TR RSQ025P03-TR
Q7813	305 139 7719	TR IMZ1A-T108
Q7861	305 217 5019	TR RN1117 TE85L
Q7862	305 217 8515	TR RSQ025P03-TR
Q7864	305 139 7719	TR IMZ1A-T108
Q841	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
INTEGRATED CIRCUIT		
IC101	309 635 1219	IC UPD64012GJ
IC1303	310 479 4004	IC TC7WBD125AFK
IC1321	309 458 2318	IC TC7SZ32FU-TE85L
IC1371	310 538 4907	IC 24LC64T-I/SNG
IC161	309 416 6419	IC BA033FP-E2
	309 588 6316	IC BA33BC0FP
IC1801	309 671 7817	IC TE7783APF
	309 633 6117	IC TE7783PF
IC1802	309 534 1716	IC SI-3025LSA-TL
IC301	309 649 1311	IC PW186-10L
IC3501	309 246 9710	IC LA6358NM-TE-L
IC3531	309 428 9613	IC M62399FP-DF0Q
IC3541	309 545 5710	IC XC6202P502M
IC3801	309 670 0819	IC HIN232ECBZ-T
	309 466 6919	IC SP232ECT-L
IC4011	310 358 1506	IC TC74HC4053AFT(EL)
IC4071	310 348 7501	IC TC7WT241FU(TE12L)
IC4891	309 404 7213	IC TC7SET00FU-(TE85L)
IC491	309 555 6417	IC SI-3018KS-TL
IC5001	309 564 1519	IC NJW1141M
IC5031	309 594 1916	IC LM4889MM
IC5081	309 398 1914	IC L88MS05TL-TL
IC5201	309 530 7217	IC AN5870SB-E1V
IC5301	309 484 2016	IC BA7078AF-E2
IC5302	309 439 8919	IC TC7WH125FU
IC5601	309 416 6518	IC BA05FP-E2
	309 591 8611	IC BA50BC0FP
IC5631	309 555 6516	IC SI-3033ZD-TL
IC5641	309 563 9615	IC SI-3012KS-TL
IC5642	309 497 6315	IC BA09FP-E2
IC5651	309 555 6318	IC BA9743AFV-E2
IC5681	309 563 9615	IC SI-3012KS-TL
IC7811	309 531 6229	IC FA7701V-TE1
IC7861	309 531 6229	IC FA7701V-TE1
IC801	310 611 5104	IC S29JL032H70TFI010-0696
IC8201	310 519 2007	IC AD9883AKSTZ-140
IC8291	309 592 8511	IC BA15BC0FP
IC841	309 480 1320	IC PST573IM
IC842	309 350 2911	IC TC7W126FU-(TE12L)
IC844	309 155 8019	IC TC7S04F-TE85L
IC8811	309 481 8615	IC LM76CHMX-5
IC8821	309 481 8615	IC LM76CHMX-5
IC8831	309 481 8615	IC LM76CHMX-5
IC891	310 337 0605	IC HD74LVC14T
IC9882	309 464 1411	IC TC74ACT14FT

Key No.	Part No.	Description		
CAPACITOR				
C102	303 379 6714	CERAMIC	10U K	16V
C103	303 343 3718	CERAMIC	0.1U Z	25V
C104	303 449 1212	POS-SOLID	47U M	6.3V
C1041	303 442 0410	CERAMIC	0.022U K	25V
C105	303 343 3718	CERAMIC	0.1U Z	25V
C1091	303 442 0410	CERAMIC	0.022U K	25V
C130	303 442 0519	CERAMIC	0.068U K	16V
C1301	303 343 3718	CERAMIC	0.1U Z	25V
C131	303 442 0519	CERAMIC	0.068U K	16V
C132	303 442 0519	CERAMIC	0.068U K	16V
C133	303 442 0519	CERAMIC	0.068U K	16V
C1331	303 276 2918	CERAMIC	12P J	50V
C1332	303 276 2918	CERAMIC	12P J	50V
C134	303 442 0519	CERAMIC	0.068U K	16V
C135	303 442 0519	CERAMIC	0.068U K	16V
C136	303 442 0519	CERAMIC	0.068U K	16V
C137	303 442 0519	CERAMIC	0.068U K	16V
C1371	303 343 3718	CERAMIC	0.1U Z	25V
C138	303 442 0519	CERAMIC	0.068U K	16V
C139	303 442 0519	CERAMIC	0.068U K	16V
C140	303 379 6714	CERAMIC	10U K	16V
C141	303 343 3718	CERAMIC	0.1U Z	25V
C142	303 343 3718	CERAMIC	0.1U Z	25V
C143	303 343 3718	CERAMIC	0.1U Z	25V
C144	303 343 3718	CERAMIC	0.1U Z	25V
C145	303 343 3718	CERAMIC	0.1U Z	25V
C146	303 343 3718	CERAMIC	0.1U Z	25V
C147	303 343 3718	CERAMIC	0.1U Z	25V
C148	303 343 3718	CERAMIC	0.1U Z	25V
C149	303 343 3718	CERAMIC	0.1U Z	25V
C150	303 343 3718	CERAMIC	0.1U Z	25V
C151	303 343 3718	CERAMIC	0.1U Z	25V
C152	303 343 3718	CERAMIC	0.1U Z	25V
C153	303 343 3718	CERAMIC	0.1U Z	25V
C154	303 343 3718	CERAMIC	0.1U Z	25V
C155	303 343 3718	CERAMIC	0.1U Z	25V
C156	303 343 3718	CERAMIC	0.1U Z	25V
C157	303 343 3718	CERAMIC	0.1U Z	25V
C158	303 343 3718	CERAMIC	0.1U Z	25V
C159	303 343 3718	CERAMIC	0.1U Z	25V
C160	303 343 3718	CERAMIC	0.1U Z	25V
C161	303 343 3718	CERAMIC	0.1U Z	25V
C162	303 314 5314	CERAMIC	5P C	50V
C163	303 314 5314	CERAMIC	5P C	50V
C164	303 343 3718	CERAMIC	0.1U Z	25V
C165	303 343 3718	CERAMIC	0.1U Z	25V
C166	303 343 3718	CERAMIC	0.1U Z	25V
C170	303 343 3718	CERAMIC	0.1U Z	25V
C171	303 343 3718	CERAMIC	0.1U Z	25V
C172	303 343 3718	CERAMIC	0.1U Z	25V
C173	303 343 3718	CERAMIC	0.1U Z	25V
C174	303 343 3718	CERAMIC	0.1U Z	25V
C175	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C1801	303 343 3718	CERAMIC	0.1U Z	25V
C1802	303 343 3718	CERAMIC	0.1U Z	25V
C1803	303 343 3718	CERAMIC	0.1U Z	25V
C1804	303 276 1317	CERAMIC	1000P K	50V
C1805	303 276 2819	CERAMIC	18P J	50V
C1806	303 343 3718	CERAMIC	0.1U Z	25V
C1807	303 343 3718	CERAMIC	0.1U Z	25V
C1808	303 343 3718	CERAMIC	0.1U Z	25V
C1809	303 343 3718	CERAMIC	0.1U Z	25V
C1810	303 343 3718	CERAMIC	0.1U Z	25V
C1811	303 343 3718	CERAMIC	0.1U Z	25V
C1812	303 343 3718	CERAMIC	0.1U Z	25V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C1820	303 343 3718	CERAMIC	0.1U Z	25V	C318	303 343 3718	CERAMIC	0.1U Z	25V
C1821	303 343 3718	CERAMIC	0.1U Z	25V	C319	303 343 3718	CERAMIC	0.1U Z	25V
C1822	303 343 3718	CERAMIC	0.1U Z	25V	C321	303 343 3718	CERAMIC	0.1U Z	25V
C1823	303 343 3718	CERAMIC	0.1U Z	25V	C322	303 343 3718	CERAMIC	0.1U Z	25V
C1830	303 449 1212	POS-SOLID	47U M	6.3V	C323	303 343 3718	CERAMIC	0.1U Z	25V
C1831	303 343 3718	CERAMIC	0.1U Z	25V	C324	303 343 3718	CERAMIC	0.1U Z	25V
C1832	303 394 9318	ELECT	220U M	6.3V	C326	303 343 3718	CERAMIC	0.1U Z	25V
	303 387 5112	ELECT	220U M	6.3V	C327	303 343 3718	CERAMIC	0.1U Z	25V
C1833	303 343 3718	CERAMIC	0.1U Z	25V	C329	303 433 1112	CERAMIC	1U K	10V
C1834	303 343 3718	CERAMIC	0.1U Z	25V	C331	303 343 3718	CERAMIC	0.1U Z	25V
C1835	303 343 3718	CERAMIC	0.1U Z	25V	C332	303 343 3718	CERAMIC	0.1U Z	25V
C1836	303 343 3718	CERAMIC	0.1U Z	25V	C336	303 433 1112	CERAMIC	1U K	10V
C1837	303 279 2915	CERAMIC	6P D	50V	C340	303 347 5510	POS-SOLID	470U M	4V
C1871	303 433 1112	CERAMIC	1U K	10V	C3502	303 409 3426	CERAMIC	0.1U K	16V
C2001	303 409 3426	CERAMIC	0.1U K	16V	C3503	303 409 3426	CERAMIC	0.1U K	16V
C2002	303 449 1212	POS-SOLID	47U M	6.3V	C3506	303 409 3426	CERAMIC	0.1U K	16V
C2013	303 343 3718	CERAMIC	0.1U Z	25V	C3531	303 343 3718	CERAMIC	0.1U Z	25V
C2023	303 391 5412	ELECT	22U M	6.3V	C3532	303 343 3718	CERAMIC	0.1U Z	25V
C2033	303 391 5412	ELECT	22U M	6.3V	C3541	303 379 6714	CERAMIC	10U K	16V
C2041	303 323 8818	CERAMIC	2.2U Z	16V	C3543	303 394 1312	ELECT	100U M	6.3V
C2051	303 323 8818	CERAMIC	2.2U Z	16V		303 387 4917	ELECT	100U M	6.3V
C2506	303 398 3817	ELECT	220U M	16V	C3544	303 343 3718	CERAMIC	0.1U Z	25V
C2507	303 343 3718	CERAMIC	0.1U Z	25V	C3555	303 341 3918	POS-SOLID	100U M	6.3V
C2521	303 343 3718	CERAMIC	0.1U Z	25V	C3581	303 394 1312	ELECT	100U M	6.3V
C2522	303 343 3718	CERAMIC	0.1U Z	25V		303 387 4917	ELECT	100U M	6.3V
C2523	303 343 3718	CERAMIC	0.1U Z	25V	C3801	303 439 8412	CERAMIC	2.2U M	6.3V
C2524	303 379 6714	CERAMIC	10U K	16V	C3802	303 439 8412	CERAMIC	2.2U M	6.3V
C2526	303 398 3916	ELECT	33U M	16V	C3803	303 439 8412	CERAMIC	2.2U M	6.3V
	303 194 5312	ELECT	33U M	16V	C3804	303 439 8412	CERAMIC	2.2U M	6.3V
C2527	303 343 3718	CERAMIC	0.1U Z	25V	C3806	303 433 1112	CERAMIC	1U K	10V
C2531	303 343 3718	CERAMIC	0.1U Z	25V	C4001	303 343 3718	CERAMIC	0.1U Z	25V
C2532	303 343 3718	CERAMIC	0.1U Z	25V	C4002	303 343 3718	CERAMIC	0.1U Z	25V
C2533	303 379 6714	CERAMIC	10U K	16V	C4003	303 343 3718	CERAMIC	0.1U Z	25V
C2534	303 343 3718	CERAMIC	0.1U Z	25V	C401	303 449 1212	POS-SOLID	47U M	6.3V
C2536	303 398 3916	ELECT	33U M	16V	C4011	303 343 3718	CERAMIC	0.1U Z	25V
	303 194 5312	ELECT	33U M	16V	C4012	303 343 3718	CERAMIC	0.1U Z	25V
C2537	303 343 3718	CERAMIC	0.1U Z	25V	C4013	303 343 3718	CERAMIC	0.1U Z	25V
C2541	303 343 3718	CERAMIC	0.1U Z	25V	C402	303 449 1212	POS-SOLID	47U M	6.3V
C2542	303 343 3718	CERAMIC	0.1U Z	25V	C403	303 355 9913	CERAMIC	2.2U K	10V
C2543	303 343 3718	CERAMIC	0.1U Z	25V	C404	303 441 9810	CERAMIC	0.01U K	50V
C2544	303 379 6714	CERAMIC	10U K	16V	C4057	303 449 1212	POS-SOLID	47U M	6.3V
C2546	303 398 3916	ELECT	33U M	16V	C406	303 441 9810	CERAMIC	0.01U K	50V
	303 194 5312	ELECT	33U M	16V	C407	303 441 9810	CERAMIC	0.01U K	50V
C2547	303 343 3718	CERAMIC	0.1U Z	25V	C408	303 441 9810	CERAMIC	0.01U K	50V
C2891	303 343 3718	CERAMIC	0.1U Z	25V	C409	303 441 9810	CERAMIC	0.01U K	50V
C2892	303 305 8812	CERAMIC	47P J	50V	C411	303 441 9810	CERAMIC	0.01U K	50V
C3001	303 323 8818	CERAMIC	2.2U Z	16V	C412	303 441 9810	CERAMIC	0.01U K	50V
C301	303 343 3718	CERAMIC	0.1U Z	25V	C413	303 441 9810	CERAMIC	0.01U K	50V
C3011	303 323 8818	CERAMIC	2.2U Z	16V	C414	303 441 9810	CERAMIC	0.01U K	50V
C302	303 343 3718	CERAMIC	0.1U Z	25V	C416	303 441 9810	CERAMIC	0.01U K	50V
C303	303 343 3718	CERAMIC	0.1U Z	25V	C417	303 441 9810	CERAMIC	0.01U K	50V
C304	303 343 3718	CERAMIC	0.1U Z	25V	C418	303 449 1212	POS-SOLID	47U M	6.3V
C3051	303 294 6110	CERAMIC	100P J	50V	C419	303 449 1212	POS-SOLID	47U M	6.3V
C3052	303 439 8412	CERAMIC	2.2U M	6.3V	C421	303 441 9810	CERAMIC	0.01U K	50V
C3053	303 343 3718	CERAMIC	0.1U Z	25V	C422	303 441 9810	CERAMIC	0.01U K	50V
C306	303 343 3718	CERAMIC	0.1U Z	25V	C423	303 441 9810	CERAMIC	0.01U K	50V
C3061	303 294 6110	CERAMIC	100P J	50V	C424	303 441 9810	CERAMIC	0.01U K	50V
C307	303 343 3718	CERAMIC	0.1U Z	25V	C426	303 441 9810	CERAMIC	0.01U K	50V
C308	303 343 3718	CERAMIC	0.1U Z	25V	C427	303 441 9810	CERAMIC	0.01U K	50V
C309	303 343 3718	CERAMIC	0.1U Z	25V	C428	303 441 9810	CERAMIC	0.01U K	50V
C3091	303 343 3718	CERAMIC	0.1U Z	25V	C429	303 441 9810	CERAMIC	0.01U K	50V
C311	303 343 3718	CERAMIC	0.1U Z	25V	C431	303 441 9810	CERAMIC	0.01U K	50V
C312	303 343 3718	CERAMIC	0.1U Z	25V	C432	303 441 9810	CERAMIC	0.01U K	50V
C313	303 343 3718	CERAMIC	0.1U Z	25V	C441	303 441 9810	CERAMIC	0.01U K	50V
C314	303 343 3718	CERAMIC	0.1U Z	25V	C442	303 441 9810	CERAMIC	0.01U K	50V
C316	303 343 3718	CERAMIC	0.1U Z	25V	C443	303 441 9810	CERAMIC	0.01U K	50V
C317	303 343 3718	CERAMIC	0.1U Z	25V	C4808	303 378 3110	CERAMIC	47U Z	6.3V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C4891	303 409 3426	CERAMIC	0.1U K	16V	C5207	303 314 5918	CERAMIC	0.47U K	16V
C491	303 320 1317	CERAMIC	0.01U Z	50V	C5208	303 323 8818	CERAMIC	2.2U Z	16V
C492	303 343 3718	CERAMIC	0.1U Z	25V	C5209	303 323 8818	CERAMIC	2.2U Z	16V
C493	303 394 1312	ELECT	100U M	6.3V	C521	303 409 3426	CERAMIC	0.1U K	16V
	303 387 4917	ELECT	100U M	6.3V	C5212	303 409 3426	CERAMIC	0.1U K	16V
C5001	303 409 3426	CERAMIC	0.1U K	16V	C5214	303 441 9810	CERAMIC	0.01U K	50V
C5002	303 441 9810	CERAMIC	0.01U K	50V	C5219	303 207 0310	CERAMIC	1U Z	16V
C5003	303 441 9810	CERAMIC	0.01U K	50V	C522	303 409 3426	CERAMIC	0.1U K	16V
C5004	303 409 3426	CERAMIC	0.1U K	16V	C5221	303 379 6714	CERAMIC	10U K	16V
C5006	303 409 3426	CERAMIC	0.1U K	16V	C5222	303 343 3718	CERAMIC	0.1U Z	25V
C5007	303 441 9810	CERAMIC	0.01U K	50V	C5223	303 394 9318	ELECT	220U M	6.3V
C5008	303 441 9810	CERAMIC	0.01U K	50V		303 387 5112	ELECT	220U M	6.3V
C5009	303 409 3426	CERAMIC	0.1U K	16V	C524	303 276 1317	CERAMIC	1000P K	50V
C501	303 449 1212	POS-SOLID	47U M	6.3V	C5241	303 343 3718	CERAMIC	0.1U Z	25V
C5011	303 071 8115	CERAMIC	2200P K	50V	C5301	303 449 1212	POS-SOLID	47U M	6.3V
C5012	303 409 3426	CERAMIC	0.1U K	16V	C5302	303 433 1112	CERAMIC	1U K	10V
C5013	303 433 1112	CERAMIC	1U K	10V	C5303	303 355 9913	CERAMIC	2.2U K	10V
C5014	303 433 1112	CERAMIC	1U K	10V	C5304	303 314 5918	CERAMIC	0.47U K	16V
C5016	303 071 8115	CERAMIC	2200P K	50V	C5306	303 316 5411	CERAMIC	1U K	10V
C5017	303 409 3426	CERAMIC	0.1U K	16V	C5307	303 314 5918	CERAMIC	0.47U K	16V
C5018	303 279 4315	CERAMIC	0.33U K	16V	C5308	303 355 9913	CERAMIC	2.2U K	10V
C5019	303 433 1112	CERAMIC	1U K	10V	C5309	303 433 1112	CERAMIC	1U K	10V
C502	303 343 3718	CERAMIC	0.1U Z	25V	C531	303 449 1212	POS-SOLID	47U M	6.3V
C5021	303 343 3718	CERAMIC	0.1U Z	25V	C5311	303 294 6110	CERAMIC	100P J	50V
C5022	303 433 1112	CERAMIC	1U K	10V	C5312	303 323 8818	CERAMIC	2.2U Z	16V
C5023	303 433 1112	CERAMIC	1U K	10V	C5313	303 449 1212	POS-SOLID	47U M	6.3V
C5024	303 379 6714	CERAMIC	10U K	16V	C5314	303 433 1112	CERAMIC	1U K	10V
C503	303 391 5115	ELECT	100U M	16V	C5315	303 433 1112	CERAMIC	1U K	10V
	303 296 9515	ELECT	100U M	16V	C5316	303 207 0310	CERAMIC	1U Z	16V
C5031	303 323 8818	CERAMIC	2.2U Z	16V	C5317	303 433 1112	CERAMIC	1U K	10V
C5032	303 314 5918	CERAMIC	0.47U K	16V	C532	303 343 3718	CERAMIC	0.1U Z	25V
C5033	303 433 1112	CERAMIC	1U K	10V	C533	303 391 5115	ELECT	100U M	16V
C5037	303 433 1112	CERAMIC	1U K	10V		303 296 9515	ELECT	100U M	16V
C5038	303 441 9810	CERAMIC	0.01U K	50V	C534	303 409 3426	CERAMIC	0.1U K	16V
C5039	303 441 9810	CERAMIC	0.01U K	50V	C535	303 391 5115	ELECT	100U M	16V
C504	303 409 3426	CERAMIC	0.1U K	16V		303 296 9515	ELECT	100U M	16V
C5041	303 441 9810	CERAMIC	0.01U K	50V	C536	303 409 3426	CERAMIC	0.1U K	16V
C505	303 391 5115	ELECT	100U M	16V	C538	303 409 3426	CERAMIC	0.1U K	16V
	303 296 9515	ELECT	100U M	16V	C539	303 409 3426	CERAMIC	0.1U K	16V
C506	303 409 3426	CERAMIC	0.1U K	16V	C541	303 409 3426	CERAMIC	0.1U K	16V
C5061	303 391 5511	ELECT	10U M	16V	C542	303 409 3426	CERAMIC	0.1U K	16V
	303 175 7212	ELECT	10U M	16V	C543	303 409 3426	CERAMIC	0.1U K	16V
C5069	303 391 5511	ELECT	10U M	16V	C544	303 409 3426	CERAMIC	0.1U K	16V
	303 175 7212	ELECT	10U M	16V	C548	303 409 3426	CERAMIC	0.1U K	16V
C508	303 409 3426	CERAMIC	0.1U K	16V	C549	303 409 3426	CERAMIC	0.1U K	16V
C5081	303 379 6714	CERAMIC	10U K	16V	C551	303 409 3426	CERAMIC	0.1U K	16V
C5083	303 394 1312	ELECT	100U M	6.3V	C552	303 409 3426	CERAMIC	0.1U K	16V
	303 387 4917	ELECT	100U M	6.3V	C554	303 276 1317	CERAMIC	1000P K	50V
C5084	303 343 3718	CERAMIC	0.1U Z	25V	C5601	303 394 9318	ELECT	220U M	6.3V
C5086	303 394 1312	ELECT	100U M	6.3V		303 387 5112	ELECT	220U M	6.3V
	303 387 4917	ELECT	100U M	6.3V	C5602	303 343 3718	CERAMIC	0.1U Z	25V
C5087	303 394 9318	ELECT	220U M	6.3V	C5603	303 394 9318	ELECT	220U M	6.3V
	303 387 5112	ELECT	220U M	6.3V		303 387 5112	ELECT	220U M	6.3V
C5088	303 394 9318	ELECT	220U M	6.3V	C5604	303 343 3718	CERAMIC	0.1U Z	25V
	303 387 5112	ELECT	220U M	6.3V	C5606	303 391 5115	ELECT	100U M	16V
C509	303 409 3426	CERAMIC	0.1U K	16V		303 296 9515	ELECT	100U M	16V
C511	303 409 3426	CERAMIC	0.1U K	16V	C5607	303 391 5115	ELECT	100U M	16V
C512	303 409 3426	CERAMIC	0.1U K	16V		303 296 9515	ELECT	100U M	16V
C513	303 409 3426	CERAMIC	0.1U K	16V	C5608	303 394 9318	ELECT	220U M	6.3V
C514	303 409 3426	CERAMIC	0.1U K	16V		303 387 5112	ELECT	220U M	6.3V
C518	303 409 3426	CERAMIC	0.1U K	16V	C5609	303 391 5115	ELECT	100U M	16V
C519	303 409 3426	CERAMIC	0.1U K	16V		303 296 9515	ELECT	100U M	16V
C5201	303 323 8818	CERAMIC	2.2U Z	16V	C561	303 449 1212	POS-SOLID	47U M	6.3V
C5202	303 323 8818	CERAMIC	2.2U Z	16V	C5612	303 398 1813	ELECT	220U M	6.3V
C5203	303 323 8818	CERAMIC	2.2U Z	16V		303 224 3417	ELECT	220U M	6.3V
C5204	303 323 8818	CERAMIC	2.2U Z	16V	C562	303 343 3718	CERAMIC	0.1U Z	25V
C5206	303 433 1112	CERAMIC	1U K	10V	C563	303 391 5115	ELECT	100U M	16V

Electrical Parts List

Key No.	Part No.	Description		
	303 296 9515	ELECT	100U M	16V
C5632	303 449 1212	POS-SOLID	47U M	6.3V
C5633	303 347 5510	POS-SOLID	470U M	4V
C5634	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C5635	303 343 3718	CERAMIC	0.1U Z	25V
C564	303 409 3426	CERAMIC	0.1U K	16V
C5641	303 374 8416	OS-SOLID	39U M	16V
C5642	303 343 3718	CERAMIC	0.1U Z	25V
C5643	303 391 5115	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C565	303 391 5115	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C5651	303 305 4715	CERAMIC	330P J	50V
C5652	303 306 6510	CERAMIC	8200P K	50V
C5653	303 376 6311	CERAMIC	0.47U K	10V
C5654	303 343 3718	CERAMIC	0.1U Z	25V
C5655	303 343 3718	CERAMIC	0.1U Z	25V
C5656	303 409 3426	CERAMIC	0.1U K	16V
C5657	303 442 0212	CERAMIC	0.22U Z	16V
C5658	303 283 5711	CERAMIC	2200P K	50V
C5659	303 379 7315	CERAMIC	4700P K	50V
C566	303 409 3426	CERAMIC	0.1U K	16V
C5660	303 379 7315	CERAMIC	4700P K	50V
C5661	303 394 9318	ELECT	220U M	6.3V
	303 387 5112	ELECT	220U M	6.3V
C5666	303 306 6510	CERAMIC	8200P K	50V
C5667	303 347 5510	POS-SOLID	470U M	4V
C5669	303 343 3718	CERAMIC	0.1U Z	25V
C5671	303 394 9318	ELECT	220U M	6.3V
	303 387 5112	ELECT	220U M	6.3V
C5676	303 306 6510	CERAMIC	8200P K	50V
C568	303 409 3426	CERAMIC	0.1U K	16V
C5680	303 376 6311	CERAMIC	0.47U K	10V
C5681	303 347 5510	POS-SOLID	470U M	4V
C5682	303 343 3718	CERAMIC	0.1U Z	25V
C5684	303 343 3718	CERAMIC	0.1U Z	25V
C5687	303 394 1312	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C569	303 409 3426	CERAMIC	0.1U K	16V
C571	303 409 3426	CERAMIC	0.1U K	16V
C572	303 409 3426	CERAMIC	0.1U K	16V
C573	303 409 3426	CERAMIC	0.1U K	16V
C574	303 409 3426	CERAMIC	0.1U K	16V
C578	303 409 3426	CERAMIC	0.1U K	16V
C579	303 409 3426	CERAMIC	0.1U K	16V
C581	303 409 3426	CERAMIC	0.1U K	16V
C582	303 409 3426	CERAMIC	0.1U K	16V
C584	303 276 1317	CERAMIC	1000P K	50V
C7811	303 314 6212	CERAMIC	2.2U K	16V
C7813	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C7814	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C7817	303 343 3718	CERAMIC	0.1U Z	25V
C7818	303 379 7315	CERAMIC	4700P K	50V
C7822	301 229 7218	MT-GLAZE	18K JA	1/16W
C7861	303 314 6212	CERAMIC	2.2U K	16V
C7863	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C7864	303 381 5316	ELECT	100U M	16V
	303 369 3211	ELECT	100U M	16V
C7867	303 343 3718	CERAMIC	0.1U Z	25V
C7868	303 379 7315	CERAMIC	4700P K	50V
C7871	303 391 5115	ELECT	100U M	16V
C7872	301 229 7218	MT-GLAZE	18K JA	1/16W
C801	303 343 3718	CERAMIC	0.1U Z	25V

Key No.	Part No.	Description		
C8203	303 439 8412	CERAMIC	2.2U M	6.3V
C8204	303 305 8812	CERAMIC	47P J	50V
C8206	303 398 3817	ELECT	220U M	16V
C8213	303 439 8412	CERAMIC	2.2U M	6.3V
C8214	303 305 8812	CERAMIC	47P J	50V
C8216	303 398 3817	ELECT	220U M	16V
C8223	303 439 8412	CERAMIC	2.2U M	6.3V
C8224	303 305 8812	CERAMIC	47P J	50V
C8226	303 398 3817	ELECT	220U M	16V
C8251	303 449 1212	POS-SOLID	47U M	6.3V
C8252	303 343 3718	CERAMIC	0.1U Z	25V
C8253	303 343 3718	CERAMIC	0.1U Z	25V
C8254	303 343 3718	CERAMIC	0.1U Z	25V
C8256	303 442 0113	CERAMIC	0.082U K	16V
C8257	303 441 9919	CERAMIC	6800P K	50V
C8259	303 343 3718	CERAMIC	0.1U Z	25V
C8261	303 343 3718	CERAMIC	0.1U Z	25V
C8262	303 449 1212	POS-SOLID	47U M	6.3V
C8263	303 343 3718	CERAMIC	0.1U Z	25V
C8264	303 343 3718	CERAMIC	0.1U Z	25V
C8266	303 343 3718	CERAMIC	0.1U Z	25V
C8267	303 343 3718	CERAMIC	0.1U Z	25V
C8268	303 343 3718	CERAMIC	0.1U Z	25V
C8269	303 343 3718	CERAMIC	0.1U Z	25V
C8271	303 343 3718	CERAMIC	0.1U Z	25V
C8272	303 343 3718	CERAMIC	0.1U Z	25V
C8273	303 343 3718	CERAMIC	0.1U Z	25V
C8274	303 343 3718	CERAMIC	0.1U Z	25V
C8291	303 449 1212	POS-SOLID	47U M	6.3V
C8292	303 343 3718	CERAMIC	0.1U Z	25V
C8293	303 394 9318	ELECT	220U M	6.3V
	303 387 5112	ELECT	220U M	6.3V
C8294	303 343 3718	CERAMIC	0.1U Z	25V
C841	303 433 1112	CERAMIC	1U K	10V
C842	303 433 1112	CERAMIC	1U K	10V
C843	303 449 1212	POS-SOLID	47U M	6.3V
C846	303 343 3718	CERAMIC	0.1U Z	25V
C847	303 441 9810	CERAMIC	0.01U K	50V
C848	303 441 9810	CERAMIC	0.01U K	50V
C849	303 441 9810	CERAMIC	0.01U K	50V
C851	303 276 1317	CERAMIC	1000P K	50V
C852	303 433 1112	CERAMIC	1U K	10V
C8811	303 276 3113	CERAMIC	33P J	50V
C8812	303 276 3113	CERAMIC	33P J	50V
C8813	303 343 3718	CERAMIC	0.1U Z	25V
C8821	303 276 3113	CERAMIC	33P J	50V
C8822	303 276 3113	CERAMIC	33P J	50V
C8823	303 343 3718	CERAMIC	0.1U Z	25V
C8831	303 276 3113	CERAMIC	33P J	50V
C8832	303 276 3113	CERAMIC	33P J	50V
C8833	303 343 3718	CERAMIC	0.1U Z	25V
C891	303 343 3718	CERAMIC	0.1U Z	25V
C9882	303 343 3718	CERAMIC	0.1U Z	25V
RESISTOR				
R1001	301 260 4115	MT-GLAZE	75 JA	1/3W
R1002	301 224 8814	MT-GLAZE	100 JA	1/16W
R101	301 225 8110	MT-GLAZE	10 JA	1/16W
R1011	301 260 4115	MT-GLAZE	75 JA	1/3W
R1012	301 224 8814	MT-GLAZE	100 JA	1/16W
R1021	301 260 4115	MT-GLAZE	75 JA	1/3W
R1022	301 224 8814	MT-GLAZE	100 JA	1/16W
R1031	301 225 1418	MT-GLAZE	47K JA	1/16W
R1034	301 224 9316	MT-GLAZE	1K JA	1/16W
R1037	301 224 8814	MT-GLAZE	100 JA	1/16W
R1038	301 224 8814	MT-GLAZE	100 JA	1/16W
R1041	301 225 1418	MT-GLAZE	47K JA	1/16W
R1048	301 224 8814	MT-GLAZE	100 JA	1/16W

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
R1051	301 260 4214	MT-GLAZE	82 JA	1/3W	R161	301 276 4710	MT-GLAZE	0.000 ZA	1/3W
R1052	301 263 7420	MT-GLAZE	75 JA	1/16W	R1805	301 224 9019	MT-GLAZE	10K JA	1/16W
R1053	301 225 7915	MT-GLAZE	220 JA	1/16W	R1806	301 224 9019	MT-GLAZE	10K JA	1/16W
R1054	301 224 9316	MT-GLAZE	1K JA	1/16W	R1807	301 224 9019	MT-GLAZE	10K JA	1/16W
R1056	301 224 8814	MT-GLAZE	100 JA	1/16W	R1808	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1061	301 260 4214	MT-GLAZE	82 JA	1/3W	R1810	301 224 9019	MT-GLAZE	10K JA	1/16W
R1062	301 263 7420	MT-GLAZE	75 JA	1/16W	R1811	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1063	301 225 7915	MT-GLAZE	220 JA	1/16W	R1812	301 224 9415	MT-GLAZE	1M JA	1/16W
R1064	301 224 9316	MT-GLAZE	1K JA	1/16W	R1813	301 237 2915	MT-GLAZE	51 JA	1/16W
R1066	301 224 8814	MT-GLAZE	100 JA	1/16W	R1814	301 224 9019	MT-GLAZE	10K JA	1/16W
R1071	301 260 4214	MT-GLAZE	82 JA	1/3W	R1815	301 224 9019	MT-GLAZE	10K JA	1/16W
R1072	301 263 7420	MT-GLAZE	75 JA	1/16W	R1819	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1073	301 225 7915	MT-GLAZE	220 JA	1/16W	R1828	301 224 9019	MT-GLAZE	10K JA	1/16W
R1074	301 224 9316	MT-GLAZE	1K JA	1/16W	R1830	301 224 9019	MT-GLAZE	10K JA	1/16W
R1076	301 224 8814	MT-GLAZE	100 JA	1/16W	R1831	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R1081	301 225 1418	MT-GLAZE	47K JA	1/16W	R1832	301 224 9019	MT-GLAZE	10K JA	1/16W
R1082	301 224 8814	MT-GLAZE	100 JA	1/16W	R1834	301 224 9019	MT-GLAZE	10K JA	1/16W
R1084	301 224 9316	MT-GLAZE	1K JA	1/16W	R1838	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1091	301 225 1418	MT-GLAZE	47K JA	1/16W	R1841	301 224 9217	MT-GLAZE	15K JA	1/16W
R1092	301 224 8814	MT-GLAZE	100 JA	1/16W	R1842	301 224 9019	MT-GLAZE	10K JA	1/16W
R1309	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R1848	301 225 1111	MT-GLAZE	27 JA	1/16W
R131	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R1849	301 225 1111	MT-GLAZE	27 JA	1/16W
R1311	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R1851	301 224 9019	MT-GLAZE	10K JA	1/16W
R1321	301 224 9316	MT-GLAZE	1K JA	1/16W	R1854	301 224 9019	MT-GLAZE	10K JA	1/16W
R1322	301 224 9316	MT-GLAZE	1K JA	1/16W	R1855	301 224 9019	MT-GLAZE	10K JA	1/16W
R1331	301 224 9415	MT-GLAZE	1M JA	1/16W	R1860	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
R137	945 049 0249	IMPEDANCE,120 OHM P			R1861	301 224 9019	MT-GLAZE	10K JA	1/16W
R1378	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R1862	301 224 9019	MT-GLAZE	10K JA	1/16W
R1379	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R1863	301 224 9019	MT-GLAZE	10K JA	1/16W
R138	301 225 8110	MT-GLAZE	10 JA	1/16W	R1864	301 224 9019	MT-GLAZE	10K JA	1/16W
R1386	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R1866	301 224 9019	MT-GLAZE	10K JA	1/16W
R1387	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R1867	301 224 9019	MT-GLAZE	10K JA	1/16W
R139	301 225 8110	MT-GLAZE	10 JA	1/16W	R1871	301 224 9019	MT-GLAZE	10K JA	1/16W
R1401	301 225 8110	MT-GLAZE	10 JA	1/16W	R1880	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1402	301 225 8110	MT-GLAZE	10 JA	1/16W	R1881	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1403	301 225 8110	MT-GLAZE	10 JA	1/16W	R1886	301 224 8814	MT-GLAZE	100 JA	1/16W
R1409	301 225 8110	MT-GLAZE	10 JA	1/16W	R1888	301 224 8814	MT-GLAZE	100 JA	1/16W
R1411	301 225 8110	MT-GLAZE	10 JA	1/16W	R1891	301 224 9019	MT-GLAZE	10K JA	1/16W
R1412	301 225 8110	MT-GLAZE	10 JA	1/16W	R1892	301 259 7823	MT-GLAZE	20K JA	1/16W
R1413	301 225 8110	MT-GLAZE	10 JA	1/16W	R1893	301 224 9019	MT-GLAZE	10K JA	1/16W
R1419	301 225 0312	MT-GLAZE	33 JA	1/16W	R2002	301 224 8814	MT-GLAZE	100 JA	1/16W
R1421	301 225 8110	MT-GLAZE	10 JA	1/16W	R2003	301 224 9019	MT-GLAZE	10K JA	1/16W
R1422	301 224 9712	MT-GLAZE	22 JA	1/16W	R2004	301 224 9217	MT-GLAZE	15K JA	1/16W
R1423	301 224 9712	MT-GLAZE	22 JA	1/16W	R2006	301 035 4319	MT-GLAZE	10 JA	1/8W
R1424	301 225 8110	MT-GLAZE	10 JA	1/16W	R2012	301 278 0116	MT-GLAZE	62 JA	1/3W
R143	301 224 9019	MT-GLAZE	10K JA	1/16W	R2013	301 225 1418	MT-GLAZE	47K JA	1/16W
R1431	301 225 8110	MT-GLAZE	10 JA	1/16W	R2016	301 224 9316	MT-GLAZE	1K JA	1/16W
R1432	301 225 8110	MT-GLAZE	10 JA	1/16W	R2018	301 225 1418	MT-GLAZE	47K JA	1/16W
R1438	301 225 0312	MT-GLAZE	33 JA	1/16W	R2019	301 227 2413	MT-GLAZE	15 JA	1/16W
R1439	301 225 8110	MT-GLAZE	10 JA	1/16W	R2022	301 278 0116	MT-GLAZE	62 JA	1/3W
R1441	301 225 8110	MT-GLAZE	10 JA	1/16W	R2023	301 225 1418	MT-GLAZE	47K JA	1/16W
R1442	301 225 8110	MT-GLAZE	10 JA	1/16W	R2026	301 224 9316	MT-GLAZE	1K JA	1/16W
R1443	301 224 9712	MT-GLAZE	22 JA	1/16W	R2028	301 225 1418	MT-GLAZE	47K JA	1/16W
R1444	301 224 9712	MT-GLAZE	22 JA	1/16W	R2029	301 227 2413	MT-GLAZE	15 JA	1/16W
R1447	301 225 8110	MT-GLAZE	10 JA	1/16W	R2032	301 278 0116	MT-GLAZE	62 JA	1/3W
R1453	301 225 8110	MT-GLAZE	10 JA	1/16W	R2033	301 225 1418	MT-GLAZE	47K JA	1/16W
R1454	301 225 8110	MT-GLAZE	10 JA	1/16W	R2034	301 234 9917	MT-GLAZE	6.8K JA	1/16W
R1456	301 225 8110	MT-GLAZE	10 JA	1/16W	R2036	301 224 9316	MT-GLAZE	1K JA	1/16W
R1462	301 225 8110	MT-GLAZE	10 JA	1/16W	R2038	301 225 1418	MT-GLAZE	47K JA	1/16W
R1463	301 225 0312	MT-GLAZE	33 JA	1/16W	R2039	301 227 2413	MT-GLAZE	15 JA	1/16W
R1464	301 225 8110	MT-GLAZE	10 JA	1/16W	R2041	301 224 8913	MT-GLAZE	100K JA	1/16W
R1466	301 224 9712	MT-GLAZE	22 JA	1/16W	R2042	301 225 1418	MT-GLAZE	47K JA	1/16W
R1467	301 224 9712	MT-GLAZE	22 JA	1/16W	R2051	301 224 8913	MT-GLAZE	100K JA	1/16W
R1468	301 224 8814	MT-GLAZE	100 JA	1/16W	R2052	301 225 1418	MT-GLAZE	47K JA	1/16W
R1512	301 224 9316	MT-GLAZE	1K JA	1/16W	R2501	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1542	301 224 9316	MT-GLAZE	1K JA	1/16W	R2502	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1572	301 224 9316	MT-GLAZE	1K JA	1/16W	R2521	301 225 1418	MT-GLAZE	47K JA	1/16W

Electrical Parts List

Key No.	Part No.	Description		Key No.	Part No.	Description	
R2523	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R3804	301 224 8814	MT-GLAZE	100 JA 1/16W
R2531	301 225 1418	MT-GLAZE	47K JA 1/16W	R381	301 224 9019	MT-GLAZE	10K JA 1/16W
R2533	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R382	301 224 9019	MT-GLAZE	10K JA 1/16W
R2541	301 225 1418	MT-GLAZE	47K JA 1/16W	R383	301 224 9019	MT-GLAZE	10K JA 1/16W
R2543	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R384	301 224 9019	MT-GLAZE	10K JA 1/16W
R2890	301 224 9712	MT-GLAZE	22 JA 1/16W	R386	301 224 9019	MT-GLAZE	10K JA 1/16W
R2891	301 224 9712	MT-GLAZE	22 JA 1/16W	R389	301 224 9019	MT-GLAZE	10K JA 1/16W
R2892	301 224 8814	MT-GLAZE	100 JA 1/16W	R397	301 225 8516	MT-GLAZE	1.8K JA 1/16W
R300	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R4001	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R3001	301 224 8913	MT-GLAZE	100K JA 1/16W	R4002	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R3003	301 225 1418	MT-GLAZE	47K JA 1/16W	R401	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R301	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R4011	301 224 9316	MT-GLAZE	1K JA 1/16W
R3011	301 224 8913	MT-GLAZE	100K JA 1/16W	R4013	301 224 9316	MT-GLAZE	1K JA 1/16W
R3013	301 225 1418	MT-GLAZE	47K JA 1/16W	R4014	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R3051	301 224 8913	MT-GLAZE	100K JA 1/16W	R4016	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R3052	301 224 8814	MT-GLAZE	100 JA 1/16W	R4017	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R3053	301 224 8913	MT-GLAZE	100K JA 1/16W	R402	301 224 9316	MT-GLAZE	1K JA 1/16W
R3054	301 224 8913	MT-GLAZE	100K JA 1/16W	R4023	301 224 9019	MT-GLAZE	10K JA 1/16W
R3056	301 224 9415	MT-GLAZE	1M JA 1/16W	R403	301 224 8814	MT-GLAZE	100 JA 1/16W
R3057	301 224 9910	MT-GLAZE	22K JA 1/16W	R4032	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3061	301 224 8913	MT-GLAZE	100K JA 1/16W	R404	301 224 8814	MT-GLAZE	100 JA 1/16W
R3062	301 224 8814	MT-GLAZE	100 JA 1/16W	R406	301 224 8814	MT-GLAZE	100 JA 1/16W
R3073	301 225 8110	MT-GLAZE	10 JA 1/16W	R407	301 224 8814	MT-GLAZE	100 JA 1/16W
R308	301 224 9019	MT-GLAZE	10K JA 1/16W	R4071	301 224 8814	MT-GLAZE	100 JA 1/16W
R3091	301 224 8814	MT-GLAZE	100 JA 1/16W	R4073	301 224 9316	MT-GLAZE	1K JA 1/16W
R310	301 224 9019	MT-GLAZE	10K JA 1/16W	R419	301 224 8814	MT-GLAZE	100 JA 1/16W
R312	301 224 9019	MT-GLAZE	10K JA 1/16W	R421	301 224 8814	MT-GLAZE	100 JA 1/16W
R314	301 224 9019	MT-GLAZE	10K JA 1/16W	R422	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R323	301 225 8011	MT-GLAZE	330 JA 1/16W	R426	301 259 7823	MT-GLAZE	20K JA 1/16W
R327	301 224 9019	MT-GLAZE	10K JA 1/16W	R427	301 263 7420	MT-GLAZE	75 JA 1/16W
R3502	301 235 0012	MT-GLAZE	7.5K JA 1/16W	R428	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3503	301 235 0012	MT-GLAZE	7.5K JA 1/16W	R429	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3504	301 225 1517	MT-GLAZE	3.9K JA 1/16W	R4834	301 225 3818	MT-GLAZE	1.5K JA 1/16W
R3506	301 224 9019	MT-GLAZE	10K JA 1/16W	R4861	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R351	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R4862	301 037 6717	MT-GLAZE	1.2K JA 1/10W
R353	301 224 9019	MT-GLAZE	10K JA 1/16W	R4863	301 235 1415	MT-GLAZE	1.2K JA 1/16W
R3531	301 224 8814	MT-GLAZE	100 JA 1/16W	R5001	301 276 4314	MT-GLAZE	4.7 JA 1/3W
R3532	301 224 8814	MT-GLAZE	100 JA 1/16W	R5002	301 224 9118	MT-GLAZE	150 JA 1/16W
R356	301 224 9019	MT-GLAZE	10K JA 1/16W	R5003	301 224 9118	MT-GLAZE	150 JA 1/16W
R358	301 224 9019	MT-GLAZE	10K JA 1/16W	R501	301 224 8814	MT-GLAZE	100 JA 1/16W
R3581	301 224 9316	MT-GLAZE	1K JA 1/16W	R502	301 224 8814	MT-GLAZE	100 JA 1/16W
R3582	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R503	301 224 8814	MT-GLAZE	100 JA 1/16W
R3583	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R5031	301 225 1319	MT-GLAZE	470 JA 1/16W
R3584	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R5032	301 225 1319	MT-GLAZE	470 JA 1/16W
R3601	301 224 9316	MT-GLAZE	1K JA 1/16W	R5033	301 235 1415	MT-GLAZE	1.2K JA 1/16W
R3602	301 225 0619	MT-GLAZE	5.6K JA 1/16W	R5034	301 224 9316	MT-GLAZE	1K JA 1/16W
R3605	301 225 1111	MT-GLAZE	27 JA 1/16W	R5036	301 235 1415	MT-GLAZE	1.2K JA 1/16W
R3606	301 225 0015	MT-GLAZE	270 JA 1/16W	R5037	301 224 9316	MT-GLAZE	1K JA 1/16W
R361	301 224 9712	MT-GLAZE	22 JA 1/16W	R5038	301 224 9019	MT-GLAZE	10K JA 1/16W
R362	301 224 9712	MT-GLAZE	22 JA 1/16W	R5039	301 229 7218	MT-GLAZE	18K JA 1/16W
R3621	301 224 9019	MT-GLAZE	10K JA 1/16W	R5041	301 224 9316	MT-GLAZE	1K JA 1/16W
R3622	301 224 9019	MT-GLAZE	10K JA 1/16W	R5042	301 224 9316	MT-GLAZE	1K JA 1/16W
R3623	301 224 9019	MT-GLAZE	10K JA 1/16W	R5043	301 276 4710	MT-GLAZE	0.000 ZA 1/3W
R3624	301 224 9019	MT-GLAZE	10K JA 1/16W	R5044	301 224 9019	MT-GLAZE	10K JA 1/16W
R3626	301 224 9019	MT-GLAZE	10K JA 1/16W	R5046	301 224 9019	MT-GLAZE	10K JA 1/16W
R3627	301 224 9019	MT-GLAZE	10K JA 1/16W	R5047	301 224 9613	MT-GLAZE	2.7K JA 1/16W
R363	301 224 9712	MT-GLAZE	22 JA 1/16W	R5048	301 224 9316	MT-GLAZE	1K JA 1/16W
R364	301 224 9712	MT-GLAZE	22 JA 1/16W	R5051	301 224 9019	MT-GLAZE	10K JA 1/16W
R365	301 224 9712	MT-GLAZE	22 JA 1/16W	R5052	301 301 8416	MT-GLAZE	16K FA 1/16W
R366	301 224 9712	MT-GLAZE	22 JA 1/16W	R5053	301 294 3313	MT-GLAZE	15K FA 1/16W
R370	301 224 9019	MT-GLAZE	10K JA 1/16W	R5056	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R371	301 224 9712	MT-GLAZE	22 JA 1/16W	R5058	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R372	301 224 9712	MT-GLAZE	22 JA 1/16W	R5061	301 224 9316	MT-GLAZE	1K JA 1/16W
R376	301 224 9712	MT-GLAZE	22 JA 1/16W	R5062	301 235 1415	MT-GLAZE	1.2K JA 1/16W
R3801	301 225 8110	MT-GLAZE	10 JA 1/16W	R5063	301 224 9316	MT-GLAZE	1K JA 1/16W
R3802	301 225 8110	MT-GLAZE	10 JA 1/16W	R5064	301 224 9316	MT-GLAZE	1K JA 1/16W
R3803	301 224 8814	MT-GLAZE	100 JA 1/16W	R5066	301 235 1415	MT-GLAZE	1.2K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
R5067	301 224 9316	MT-GLAZE	1K JA	1/16W	R5625	301 102 7519	MT-GLAZE	22 JA	1W
R5068	301 235 1415	MT-GLAZE	1.2K JA	1/16W	R5626	301 102 7519	MT-GLAZE	22 JA	1W
R5069	301 224 9316	MT-GLAZE	1K JA	1/16W	R5627	301 102 7519	MT-GLAZE	22 JA	1W
R5071	301 235 1415	MT-GLAZE	1.2K JA	1/16W	R563	301 224 8814	MT-GLAZE	100 JA	1/16W
R5081	301 224 9019	MT-GLAZE	10K JA	1/16W	R5631	301 224 8814	MT-GLAZE	100 JA	1/16W
R5082	301 224 9316	MT-GLAZE	1K JA	1/16W	R5632	301 225 5614	MT-GLAZE	2.2 JA	1W
R5083	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R5633	301 225 5614	MT-GLAZE	2.2 JA	1W
R513	301 224 8814	MT-GLAZE	100 JA	1/16W	R5641	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R519	301 224 9514	MT-GLAZE	2.2K JA	1/16W	R5642	301 259 2313	MT-GLAZE	200K JA	1/16W
R5201	301 224 8814	MT-GLAZE	100 JA	1/16W	R5643	301 261 1113	MT-GLAZE	24K JA	1/16W
R5202	301 224 8814	MT-GLAZE	100 JA	1/16W	R5644	301 276 4710	MT-GLAZE	0.000 ZA	1/3W
R5203	301 224 8814	MT-GLAZE	100 JA	1/16W	R5650	301 259 7823	MT-GLAZE	20K JA	1/16W
R5204	301 224 9316	MT-GLAZE	1K JA	1/16W	R5651	301 261 2011	MT-GLAZE	9.1K JA	1/16W
R5208	301 224 9316	MT-GLAZE	1K JA	1/16W	R5652	301 261 2011	MT-GLAZE	9.1K JA	1/16W
R5209	301 224 9316	MT-GLAZE	1K JA	1/16W	R5653	301 241 6619	MT-GLAZE	62K JA	1/16W
R5212	301 224 9316	MT-GLAZE	1K JA	1/16W	R5654	301 225 1715	MT-GLAZE	39K JA	1/16W
R5213	301 224 8814	MT-GLAZE	100 JA	1/16W	R5655	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5216	301 224 8814	MT-GLAZE	100 JA	1/16W	R5656	301 241 6619	MT-GLAZE	62K JA	1/16W
R5218	301 224 8814	MT-GLAZE	100 JA	1/16W	R5657	301 225 1715	MT-GLAZE	39K JA	1/16W
R5219	301 227 2413	MT-GLAZE	15 JA	1/16W	R5658	301 261 2011	MT-GLAZE	9.1K JA	1/16W
R5226	301 224 9514	MT-GLAZE	2.2K JA	1/16W	R5659	301 261 2011	MT-GLAZE	9.1K JA	1/16W
R5227	301 224 9316	MT-GLAZE	1K JA	1/16W	R5661	301 237 2915	MT-GLAZE	51 JA	1/16W
R5228	301 227 2413	MT-GLAZE	15 JA	1/16W	R5662	301 225 8011	MT-GLAZE	330 JA	1/16W
R5233	301 227 2413	MT-GLAZE	15 JA	1/16W	R5663	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5238	301 276 4710	MT-GLAZE	0.000 ZA	1/3W	R5664	301 227 5612	MT-GLAZE	8.2K JA	1/16W
R5239	301 037 5116	MT-GLAZE	10 JA	1/10W	R5666	301 229 7218	MT-GLAZE	18K JA	1/16W
R5241	301 035 4111	MT-GLAZE	0.000 ZA	1/8W	R5671	301 237 2915	MT-GLAZE	51 JA	1/16W
R5242	301 224 8814	MT-GLAZE	100 JA	1/16W	R5672	301 225 8011	MT-GLAZE	330 JA	1/16W
R5243	301 224 9613	MT-GLAZE	2.7K JA	1/16W	R5673	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5244	301 261 1519	MT-GLAZE	4.3K JA	1/16W	R5674	301 286 4717	MT-GLAZE	30K JA	1/16W
R5251	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R5676	301 229 7218	MT-GLAZE	18K JA	1/16W
R5254	301 225 3818	MT-GLAZE	1.5K JA	1/16W	R5677	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5255	301 224 9514	MT-GLAZE	2.2K JA	1/16W	R5678	301 225 0114	MT-GLAZE	27K JA	1/16W
R526	301 225 8516	MT-GLAZE	1.8K JA	1/16W	R5681	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R5261	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R5682	301 224 9910	MT-GLAZE	22K JA	1/16W
R5262	301 225 1319	MT-GLAZE	470 JA	1/16W	R5683	301 261 1113	MT-GLAZE	24K JA	1/16W
R5264	301 225 3818	MT-GLAZE	1.5K JA	1/16W	R573	301 224 8814	MT-GLAZE	100 JA	1/16W
R5265	301 224 9514	MT-GLAZE	2.2K JA	1/16W	R579	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R5266	301 035 4111	MT-GLAZE	0.000 ZA	1/8W	R586	301 225 8516	MT-GLAZE	1.8K JA	1/16W
R5271	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R589	301 224 9316	MT-GLAZE	1K JA	1/16W
R5274	301 225 3818	MT-GLAZE	1.5K JA	1/16W	R6803	301 224 9019	MT-GLAZE	10K JA	1/16W
R5275	301 224 9514	MT-GLAZE	2.2K JA	1/16W	R6804	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5282	301 224 9514	MT-GLAZE	2.2K JA	1/16W	R6812	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5289	301 224 9514	MT-GLAZE	2.2K JA	1/16W	R6813	301 224 9019	MT-GLAZE	10K JA	1/16W
R529	301 224 9316	MT-GLAZE	1K JA	1/16W	R6822	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5301	301 035 4111	MT-GLAZE	0.000 ZA	1/8W	R6823	301 224 9019	MT-GLAZE	10K JA	1/16W
R5303	301 224 8814	MT-GLAZE	100 JA	1/16W	R6841	301 225 2019	MT-GLAZE	680 JA	1/16W
R5304	301 224 9415	MT-GLAZE	1M JA	1/16W	R6843	301 225 1616	MT-GLAZE	390 JA	1/16W
R5306	301 225 1517	MT-GLAZE	3.9K JA	1/16W	R6846	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R531	301 224 8814	MT-GLAZE	100 JA	1/16W	R6848	301 225 2019	MT-GLAZE	680 JA	1/16W
R5312	301 224 9514	MT-GLAZE	2.2K JA	1/16W	R6849	301 225 2019	MT-GLAZE	680 JA	1/16W
R5313	301 224 9019	MT-GLAZE	10K JA	1/16W	R6851	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5314	301 225 8615	MT-GLAZE	560K JA	1/16W	R6853	301 225 1319	MT-GLAZE	470 JA	1/16W
R5316	301 224 9316	MT-GLAZE	1K JA	1/16W	R6854	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5319	301 224 8814	MT-GLAZE	100 JA	1/16W	R6857	301 225 1616	MT-GLAZE	390 JA	1/16W
R532	301 224 8814	MT-GLAZE	100 JA	1/16W	R6858	301 225 1616	MT-GLAZE	390 JA	1/16W
R5321	301 224 9316	MT-GLAZE	1K JA	1/16W	R6859	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R533	301 224 8814	MT-GLAZE	100 JA	1/16W	R6863	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R543	301 224 8814	MT-GLAZE	100 JA	1/16W	R6864	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R549	301 224 9514	MT-GLAZE	2.2K JA	1/16W	R6865	301 224 9316	MT-GLAZE	1K JA	1/16W
R556	301 225 8516	MT-GLAZE	1.8K JA	1/16W	R6866	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R559	301 224 9316	MT-GLAZE	1K JA	1/16W	R699	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5601	301 190 1710	MT-GLAZE	0.000 ZA	1W	R7803	301 224 9019	MT-GLAZE	10K JA	1/16W
R561	301 224 8814	MT-GLAZE	100 JA	1/16W	R7813	301 224 9415	MT-GLAZE	1M JA	1/16W
R562	301 224 8814	MT-GLAZE	100 JA	1/16W	R7816	301 237 2915	MT-GLAZE	51 JA	1/16W
R5622	301 190 1710	MT-GLAZE	0.000 ZA	1W	R7818	301 276 3010	MT-GLAZE	75K JA	1/16W
R5623	301 190 1710	MT-GLAZE	0.000 ZA	1W	R7819	301 224 8913	MT-GLAZE	100K JA	1/16W

Electrical Parts List

Key No.	Part No.	Description
R7821	301 294 3511	MT-GLAZE 27K FA 1/16W
R7824	301 294 4419	MT-GLAZE 1.8K FA 1/16W
R7828	301 224 9019	MT-GLAZE 10K JA 1/16W
R7829	301 224 9910	MT-GLAZE 22K JA 1/16W
R7831	301 224 9316	MT-GLAZE 1K JA 1/16W
R7832	301 224 9019	MT-GLAZE 10K JA 1/16W
R7833	301 224 9613	MT-GLAZE 2.7K JA 1/16W
R7863	301 224 9415	MT-GLAZE 1M JA 1/16W
R7866	301 237 2915	MT-GLAZE 51 JA 1/16W
R7868	301 276 3010	MT-GLAZE 75K JA 1/16W
R7869	301 224 8913	MT-GLAZE 100K JA 1/16W
R7871	301 294 3511	MT-GLAZE 27K FA 1/16W
R7872	301 190 1710	MT-GLAZE 0.000 ZA 1W
R7874	301 294 4419	MT-GLAZE 1.8K FA 1/16W
R7878	301 224 9019	MT-GLAZE 10K JA 1/16W
R7879	301 224 9910	MT-GLAZE 22K JA 1/16W
R7881	301 224 9316	MT-GLAZE 1K JA 1/16W
R7882	301 224 9019	MT-GLAZE 10K JA 1/16W
R7883	301 224 9613	MT-GLAZE 2.7K JA 1/16W
R801	301 224 9019	MT-GLAZE 10K JA 1/16W
R802	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R803	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R804	301 224 9019	MT-GLAZE 10K JA 1/16W
R806	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R807	301 224 9019	MT-GLAZE 10K JA 1/16W
R808	301 224 9019	MT-GLAZE 10K JA 1/16W
R812	301 224 9019	MT-GLAZE 10K JA 1/16W
R8201	301 225 1913	MT-GLAZE 68 JA 1/16W
R8202	301 235 2115	MT-GLAZE 82 JA 1/16W
R8211	301 225 1913	MT-GLAZE 68 JA 1/16W
R8212	301 235 2115	MT-GLAZE 82 JA 1/16W
R8221	301 225 1913	MT-GLAZE 68 JA 1/16W
R8222	301 235 2115	MT-GLAZE 82 JA 1/16W
R8250	301 224 9019	MT-GLAZE 10K JA 1/16W
R8251	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
R8254	301 225 8110	MT-GLAZE 10 JA 1/16W
R8256	301 224 9613	MT-GLAZE 2.7K JA 1/16W
R8257	301 225 8110	MT-GLAZE 10 JA 1/16W
R8258	301 225 8110	MT-GLAZE 10 JA 1/16W
R8261	301 224 9019	MT-GLAZE 10K JA 1/16W
R8262	301 224 8814	MT-GLAZE 100 JA 1/16W
R8263	301 224 8814	MT-GLAZE 100 JA 1/16W
R8291	301 276 4710	MT-GLAZE 0.000 ZA 1/3W
R839	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R840	301 225 1319	MT-GLAZE 470 JA 1/16W
R841	301 224 8913	MT-GLAZE 100K JA 1/16W
R846	301 224 9316	MT-GLAZE 1K JA 1/16W
R847	301 226 2414	MT-GLAZE 560 JA 1/16W
R848	301 225 3818	MT-GLAZE 1.5K JA 1/16W
R849	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R851	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R852	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R856	301 225 1814	MT-GLAZE 47 JA 1/16W
R858	301 224 9316	MT-GLAZE 1K JA 1/16W
R868	301 224 9316	MT-GLAZE 1K JA 1/16W
R869	301 224 9316	MT-GLAZE 1K JA 1/16W
R8811	301 225 8110	MT-GLAZE 10 JA 1/16W
R8812	301 225 8110	MT-GLAZE 10 JA 1/16W
R8821	301 225 8110	MT-GLAZE 10 JA 1/16W
R8822	301 225 8110	MT-GLAZE 10 JA 1/16W
R8831	301 225 8110	MT-GLAZE 10 JA 1/16W
R8832	301 225 8110	MT-GLAZE 10 JA 1/16W
R896	301 226 2414	MT-GLAZE 560 JA 1/16W
R898	301 224 8814	MT-GLAZE 100 JA 1/16W
R9822	301 225 8110	MT-GLAZE 10 JA 1/16W
R9823	301 225 8110	MT-GLAZE 10 JA 1/16W
RB101	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB102	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB103	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB104	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB1401	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB1402	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB1403	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB1404	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB1406	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB1407	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB1408	645 049 0668	R-NETWORK 10X4 1/32W
	945 049 0683	R-NETWORK 10X4 1/16W
RB1409	645 049 0668	R-NETWORK 10X4 1/32W
	945 049 0683	R-NETWORK 10X4 1/16W
RB1411	645 049 0668	R-NETWORK 10X4 1/32W
	945 049 0683	R-NETWORK 10X4 1/16W
RB1412	645 049 0668	R-NETWORK 10X4 1/32W
	945 049 0683	R-NETWORK 10X4 1/16W
RB1413	645 049 0668	R-NETWORK 10X4 1/32W
	945 049 0683	R-NETWORK 10X4 1/16W
RB1414	645 049 0668	R-NETWORK 10X4 1/32W
	945 049 0683	R-NETWORK 10X4 1/16W
RB361	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB362	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB363	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB364	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB366	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB367	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8251	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8252	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8253	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8254	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8256	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8257	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
TRANSFORMER		
T5601	305 139 7719	TR IMZ1A-T108
T5611	305 139 7719	TR IMZ1A-T108
COIL		
L1002	945 068 8349	FILTER,EMI 400MHZ
L1012	945 068 8349	FILTER,EMI 400MHZ
L1022	945 068 8349	FILTER,EMI 400MHZ
L1031	945 068 8332	FILTER,EMI 200MHZ
L1041	945 068 8332	FILTER,EMI 200MHZ
L105	945 059 2264	INDUCTOR,4.7U M
L1051	945 068 8349	FILTER,EMI 400MHZ

Electrical Parts List

Key No.	Part No.	Description
L106	945 059 2264	INDUCTOR,4.7U M
L1061	945 068 8349	FILTER,EMI 400MHZ
L107	945 059 2264	INDUCTOR,4.7U M
L1071	945 068 8349	FILTER,EMI 400MHZ
L108	945 059 2264	INDUCTOR,4.7U M
L1081	945 068 8332	FILTER,EMI 200MHZ
L109	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
L1091	945 068 8332	FILTER,EMI 200MHZ
L1801	945 062 2824	INDUCTOR,3.3U M
L1802	945 059 1748	INDUCTOR,2.2U J
L2001	945 068 8325	FILTER,EMI 20MHZ
L2011	301 035 4111	MT-GLAZE 0.000 ZA 1/8W
L2012	945 068 8318	FILTER,EMI 100MHZ
L2021	301 035 4111	MT-GLAZE 0.000 ZA 1/8W
L2022	945 068 8318	FILTER,EMI 100MHZ
L2031	301 035 4111	MT-GLAZE 0.000 ZA 1/8W
L2032	945 068 8318	FILTER,EMI 100MHZ
L2041	945 068 8325	FILTER,EMI 20MHZ
L2051	945 068 8325	FILTER,EMI 20MHZ
L3002	945 068 8325	FILTER,EMI 20MHZ
L3011	945 068 8325	FILTER,EMI 20MHZ
L302	945 050 8449	IMPEDANCE,1000 OHM P
L3051	945 068 8325	FILTER,EMI 20MHZ
L3061	945 068 8325	FILTER,EMI 20MHZ
L3081	945 068 8325	FILTER,EMI 20MHZ
L3082	945 068 8325	FILTER,EMI 20MHZ
L351	945 050 8449	IMPEDANCE,1000 OHM P
L3531	945 062 2824	INDUCTOR,3.3U M
L3581	945 062 2824	INDUCTOR,3.3U M
L401	301 035 4111	MT-GLAZE 0.000 ZA 1/8W
L5031	945 062 2824	INDUCTOR,3.3U M
L5302	945 059 2264	INDUCTOR,4.7U M
L5311	945 059 2264	INDUCTOR,4.7U M
L5601	945 062 2855	INDUCTOR,33U M
L5611	945 062 2855	INDUCTOR,33U M
L5612	945 033 7940	INDUCTOR,33U M
L7811	945 038 4579	INDUCTOR,33U M
L7861	945 038 4562	INDUCTOR,100U M
L8251	301 035 4111	MT-GLAZE 0.000 ZA 1/8W
DIODE		
D2002	307 209 1214	ZD UDZS-TE-176.2B
D2891	307 209 1214	ZD UDZS-TE-176.2B
D2892	307 209 1214	ZD UDZS-TE-176.2B
D3051	307 149 0810	DIODE 1SS355-TE-17
D3601	307 149 0810	DIODE 1SS355-TE-17
D3602	307 149 0810	DIODE 1SS355-TE-17
D3603	307 149 0810	DIODE 1SS355-TE-17
D3604	307 149 0810	DIODE 1SS355-TE-17
D3606	307 149 0810	DIODE 1SS355-TE-17
D3607	307 149 0810	DIODE 1SS355-TE-17
D3608	307 149 0810	DIODE 1SS355-TE-17
D3609	307 149 0810	DIODE 1SS355-TE-17
D3611	307 149 0810	DIODE 1SS355-TE-17
D3612	307 149 0810	DIODE 1SS355-TE-17
D3613	307 149 0810	DIODE 1SS355-TE-17
D3614	307 149 0810	DIODE 1SS355-TE-17
D3617	307 149 0810	DIODE 1SS355-TE-17
D3618	307 149 0810	DIODE 1SS355-TE-17
D3619	307 149 0810	DIODE 1SS355-TE-17
D3620	307 149 0810	DIODE 1SS355-TE-17
D3621	307 149 0810	DIODE 1SS355-TE-17
D3622	307 149 0810	DIODE 1SS355-TE-17
D3623	307 149 0810	DIODE 1SS355-TE-17
D3624	307 149 0810	DIODE 1SS355-TE-17
D3626	307 149 0810	DIODE 1SS355-TE-17
D3627	307 149 0810	DIODE 1SS355-TE-17
D4812	307 209 1214	ZD UDZS-TE-176.2B
D4813	307 209 1214	ZD UDZS-TE-176.2B
D5061	307 149 0810	DIODE 1SS355-TE-17
D5062	307 149 0810	DIODE 1SS355-TE-17
D5601	307 201 2724	DIODE RB051L-40-TE25
D5602	307 209 4512	ZD UDZS-TE-176.8B
D5611	307 201 2724	DIODE RB051L-40-TE25
D5612	307 209 4512	ZD UDZS-TE-176.8B
D5621	307 210 5416	DIODE RB551V-30-TE-17
D5631	307 209 4512	ZD UDZS-TE-176.8B
D6831	307 209 7513	LED SML-210YT T86 L
D6832	307 203 7816	LED SML-210LT T86 M
D6833	307 222 4810	LED SML-521MUW T86
D6841	307 221 7119	ZENER DIODE UDZS-TE-1712B
D6842	307 221 7119	ZENER DIODE UDZS-TE-1712B
D6843	307 221 7119	ZENER DIODE UDZS-TE-1712B
D6844	307 221 7119	ZENER DIODE UDZS-TE-1712B
D7812	307 201 2724	DIODE RB051L-40-TE25
D7862	307 201 2724	DIODE RB051L-40-TE25
MISCELLANEOUS		
FB2881	945 041 1978	INDUCTOR,330 OHM
FB2882	945 041 1978	INDUCTOR,330 OHM
FB2891	945 041 1978	INDUCTOR,330 OHM
FB3621	945 041 1978	INDUCTOR,330 OHM
FB3622	945 041 1978	INDUCTOR,330 OHM
FB3623	945 041 1978	INDUCTOR,330 OHM
FB3624	945 041 1978	INDUCTOR,330 OHM
FB3626	945 041 1978	INDUCTOR,330 OHM
FB3627	945 041 1978	INDUCTOR,330 OHM
FB4801	945 041 1978	INDUCTOR,330 OHM
FB601	945 041 1978	INDUCTOR,330 OHM
FB602	945 041 1978	INDUCTOR,330 OHM
FB603	945 041 1978	INDUCTOR,330 OHM
FB604	945 041 1978	INDUCTOR,330 OHM
FB606	945 041 1978	INDUCTOR,330 OHM
FB607	945 041 1978	INDUCTOR,330 OHM
FB608	945 041 1978	INDUCTOR,330 OHM
FB609	945 041 1978	INDUCTOR,330 OHM
K10A	945 050 8012	SOCKET,D-SUB 15P
K10B	945 050 8012	SOCKET,D-SUB 15P
K20A	645 076 2734	JACK,RCA-2
K20B	945 067 6124	TERMINAL,BOARD
K30B	645 076 2741	JACK,PHON D3.6
K40A	645 075 1752	SOCKET,USB 4P
K40B	645 078 1612	SOCKET,DIN 8P
SC1031	645 076 3502	SURGE-ABSORBER
SC1041	645 076 3502	SURGE-ABSORBER
SC1081	645 076 3502	SURGE-ABSORBER
SC1091	645 076 3502	SURGE-ABSORBER
SC2001	645 076 3502	SURGE-ABSORBER
SC2011	645 076 3502	SURGE-ABSORBER
SC2021	645 076 3502	SURGE-ABSORBER
SC2031	645 076 3502	SURGE-ABSORBER
SC2041	645 076 3502	SURGE-ABSORBER
SC2051	645 076 3502	SURGE-ABSORBER
SC3001	645 076 3502	SURGE-ABSORBER
SC301	645 076 3502	SURGE-ABSORBER
SC3011	645 076 3502	SURGE-ABSORBER
SC302	645 076 3502	SURGE-ABSORBER
SC303	645 076 3502	SURGE-ABSORBER
SC304	645 076 3502	SURGE-ABSORBER
SC3051	645 076 3502	SURGE-ABSORBER
SC306	645 076 3502	SURGE-ABSORBER
SC3061	645 076 3502	SURGE-ABSORBER
SC307	645 076 3502	SURGE-ABSORBER
SC3071	645 076 3502	SURGE-ABSORBER
SC3072	645 076 3502	SURGE-ABSORBER
SC3073	645 076 3502	SURGE-ABSORBER

Electrical Parts List

Key No.	Part No.	Description
SC308	645 076 3502	SURGE-ABSORBER
SC3081	645 076 3502	SURGE-ABSORBER
SC3082	645 076 3502	SURGE-ABSORBER
SC309	645 076 3502	SURGE-ABSORBER
SC3091	645 076 3502	SURGE-ABSORBER
SC311	645 076 3502	SURGE-ABSORBER
SC313	645 076 3502	SURGE-ABSORBER
SC314	645 076 3502	SURGE-ABSORBER
SC316	645 076 3502	SURGE-ABSORBER
SC5601	645 076 3502	SURGE-ABSORBER
SC5602	645 076 3502	SURGE-ABSORBER
SC5603	645 076 3502	SURGE-ABSORBER
SC5607	645 076 3502	SURGE-ABSORBER
SC5608	645 076 3502	SURGE-ABSORBER
SW50A	945 010 7659	SWITCH,PUSH 1P-1TX1
X101	645 076 4653	OSC,CRYSTAL 24.576MHZ
X1331	645 076 0280	OSC,CRYSTAL 14.31818MHZ
X1801	645 076 0310	OSC,CRYSTAL 48MHZ

610 329 0904 ASSY,PWB,R/CS. LG6A

CAPACITOR

C2901	303 442 2018	CERAMIC	1U Z	10V
C2902	303 282 5118	CERAMIC	470P K	50V
C2903	303 378 3110	CERAMIC	47U Z	6.3V

RESISTOR

R2901	301 225 1814	MT-GLAZE	47 JA	1/16W
R2902	301 224 8814	MT-GLAZE	100 JA	1/16W

MISCELLANEOUS

A2901	645 084 1996	UNIT,REMOCON RECEIVER

610 329 1253 ASSY,PWB,ALARM-A LG6A

TRANSISTOR

Q8751	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q8752	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q8753	305 191 5814	TR 3LN01C-TB-E
Q8754	305 191 5814	TR 3LN01C-TB-E
Q8756	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB
	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
Q8757	305 191 5814	TR 3LN01C-TB-E
Q8758	305 191 5814	TR 3LN01C-TB-E
Q8759	305 191 5814	TR 3LN01C-TB-E

INTEGRATED CIRCUIT

IC8701	310 617 8406	IC R5F21134FP-C803
IC8702	309 137 9010	IC TC4S81F-TE85R
IC8703	309 155 7329	IC TC4S71F-TE85R
IC8708	310 596 5205	IC S-1000C27-M5T1G
IC8712	309 482 3817	IC NJM2360AM(TE2)

CAPACITOR

C8701	303 164 0217	CERAMIC	0.1U Z	25V
C8702	303 164 0217	CERAMIC	0.1U Z	25V
C8703	303 164 0217	CERAMIC	0.1U Z	25V
C8704	303 164 0217	CERAMIC	0.1U Z	25V
C8705	303 391 5313	ELECT	47U M	6.3V
C8706	303 305 9918	CERAMIC	680P J	25V
C8707	303 398 3817	ELECT	220U M	16V

RESISTOR

R8701	301 150 5918	MT-GLAZE	10K JA	1/10W
R8702	301 150 5918	MT-GLAZE	10K JA	1/10W
R8703	301 150 5918	MT-GLAZE	10K JA	1/10W
R8704	301 150 5918	MT-GLAZE	10K JA	1/10W
R8706	301 255 8111	MT-GLAZE	5.1K JA	1/10W
R8707	301 150 5918	MT-GLAZE	10K JA	1/10W
R8708	301 162 3612	MT-GLAZE	470 JA	1/10W
R8711	301 150 5918	MT-GLAZE	10K JA	1/10W
R8712	301 150 5918	MT-GLAZE	10K JA	1/10W
R8713	301 150 5918	MT-GLAZE	10K JA	1/10W
R8714	301 162 3117	MT-GLAZE	3.3K JA	1/10W
R8715	301 162 3117	MT-GLAZE	3.3K JA	1/10W
R8716	301 162 3117	MT-GLAZE	3.3K JA	1/10W
R8717	301 150 5918	MT-GLAZE	10K JA	1/10W
R8718	301 150 5918	MT-GLAZE	10K JA	1/10W
R8719	301 150 5918	MT-GLAZE	10K JA	1/10W
R8721	301 150 5918	MT-GLAZE	10K JA	1/10W
R8722	301 150 6212	MT-GLAZE	1K JA	1/10W
R8723	301 162 3612	MT-GLAZE	470 JA	1/10W
R8724	301 150 5918	MT-GLAZE	10K JA	1/10W
R8726	301 150 5918	MT-GLAZE	10K JA	1/10W
R8731	301 150 5918	MT-GLAZE	10K JA	1/10W
R8732	301 150 5819	MT-GLAZE	100K JA	1/10W
R8733	301 255 6513	MT-GLAZE	100 JA	1/10W
R8752	301 234 4714	MT-GLAZE	3.3 JA	1W
R8754	301 256 0213	MT-GLAZE	120K JA	1/10W
R8755	301 234 4714	MT-GLAZE	3.3 JA	1W
R8756	301 255 5912	MT-GLAZE	200 JA	1/10W
R8757	301 256 3313	MT-GLAZE	75K JA	1/10W
R8758	301 150 5918	MT-GLAZE	10K JA	1/10W
R8759	301 256 0213	MT-GLAZE	120K JA	1/10W
R8761	301 150 6113	MT-GLAZE	2.2K JA	1/10W
R8762	301 150 6212	MT-GLAZE	1K JA	1/10W
R8763	301 150 6212	MT-GLAZE	1K JA	1/10W
R8764	301 255 8111	MT-GLAZE	5.1K JA	1/10W
R8771	301 234 4714	MT-GLAZE	3.3 JA	1W
R8772	301 234 4714	MT-GLAZE	3.3 JA	1W
R8773	301 162 3117	MT-GLAZE	3.3K JA	1/10W
R8776	301 162 3117	MT-GLAZE	3.3K JA	1/10W
R8777	301 150 6212	MT-GLAZE	1K JA	1/10W
R8778	301 255 9514	MT-GLAZE	220K JA	1/10W
R8779	301 255 9514	MT-GLAZE	220K JA	1/10W
R8782	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R8784	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R8787	301 150 6014	MT-GLAZE	0.000 ZA	1/10W

COIL

L6801	945 033 7995	INDUCTOR,100U M

DIODE

Electrical Parts List

Key No.	Part No.	Description
D8701	307 149 0810	DIODE 1SS355-TE-17
D8702	307 210 5416	DIODE RB551V-30-TE-17
D8703	307 210 5416	DIODE RB551V-30-TE-17
D8704	307 210 5416	DIODE RB551V-30-TE-17
D8708	307 210 5416	DIODE RB551V-30-TE-17
D8709	307 210 5416	DIODE RB551V-30-TE-17
MISCELLANEOUS		
IC8706A	610 325 2490	STOPPER FLT BATTERY B-PZ5A
IC8706B	610 325 2650	STOPPER FLT BATTERY A-PZ5A
IC8709	320 002 2100	PZ BZR PKM22EPPH4001-
IC8710	645 081 3856	SWITCH,SENSOR 2P-2T
Q8761TM	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
SW8701	945 025 3479	SWITCH,PUSH 1P-2TX1
SW8702	945 063 5176	SWITCH,PUSH 2P-2TX3

610 329 1260 ASSY,PWB,ALARM-B LG6A

RESISTOR		
R8751	301 256 2019	MT-GLAZE 430 JA 1/10W
DIODE		
D8751	307 204 0014	LED SML-210LT T86 L
MISCELLANEOUS		
SW8751	910 011 1791	SWITCH,PUSH
SW8752	910 011 1791	SWITCH,PUSH
SW8753	910 011 1791	SWITCH,PUSH
SW8754	910 011 1791	SWITCH,PUSH

PACKING MATERIALS

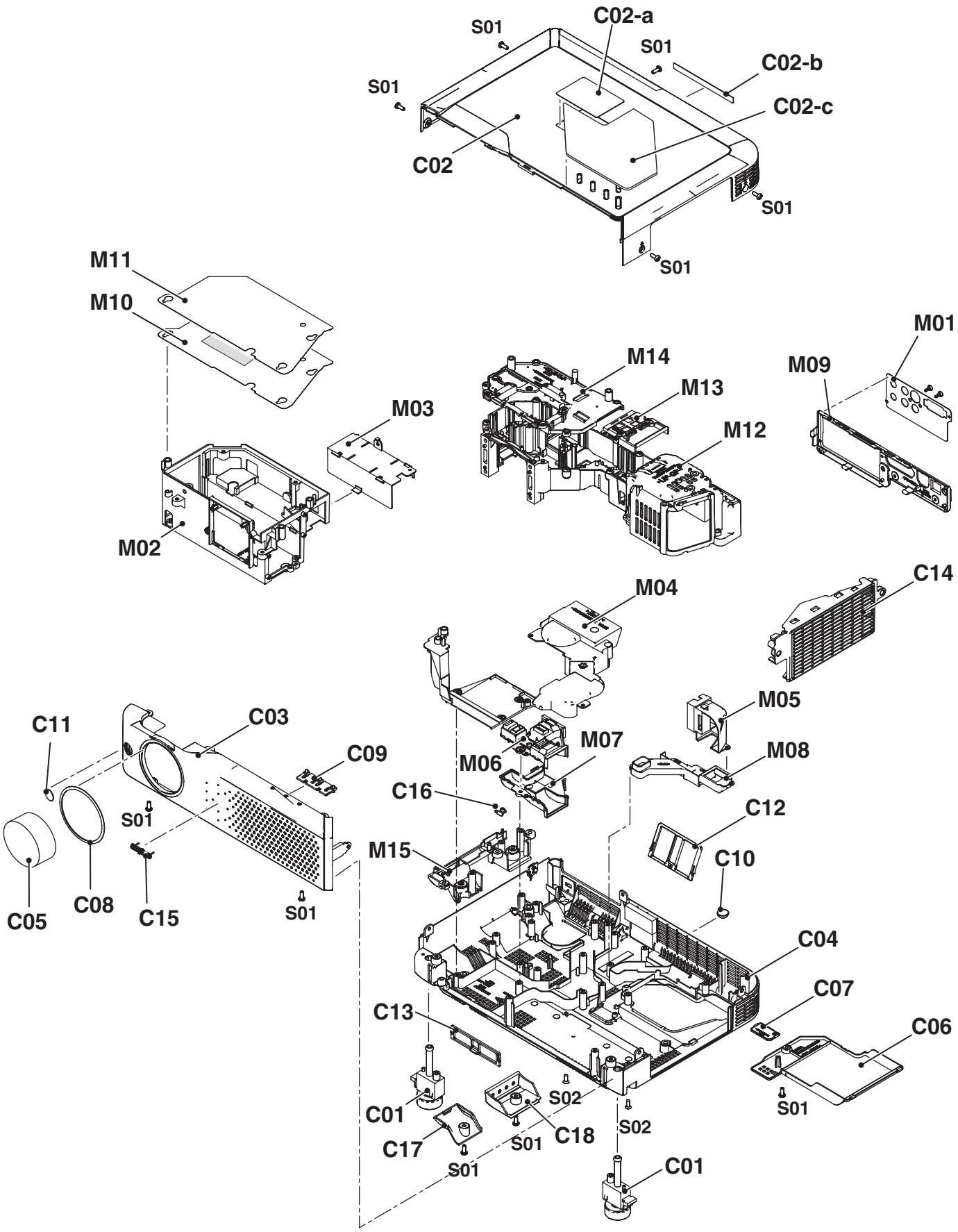
	610 328 4934	CARTON CASE-LG6A
	610 323 2065	CUSHION SPACER-MT5A
	610 323 2522	CUSHION BTM-MT5A
	610 323 1785	CUSHION TOP-MT5A
	645 068 6863	POLY BAG-0440X0480*NC

ACCESSORIES

AC CORD		
⚠ (EU)	945 054 1156	CORD,POWER-3.0MK
⚠ (UK)	945 054 1149	CORD,POWER-3.138MK
OWNER'S MANUAL		
	645 088 9264	CD-ROM,OWNERS MANUAL-LG6A
	610 330 9859	SETUP INST MANUAL-LG6A
REMOTE CONTROL		
	645 084 8537	ASSY,REMOCON CXVB
	610 321 4481	RC-BATTERY LID-CXTJ
MISCELLANEOUS		
	610 326 1607	STRAP COMP-MT5A
	945 073 4855	CABLE,INTERFACE VGA
	645 081 8721	BATTERY,LITHIUM FOR ALARM
OR	645 088 6836	BATTERY,LITHIUM FOR ALARM

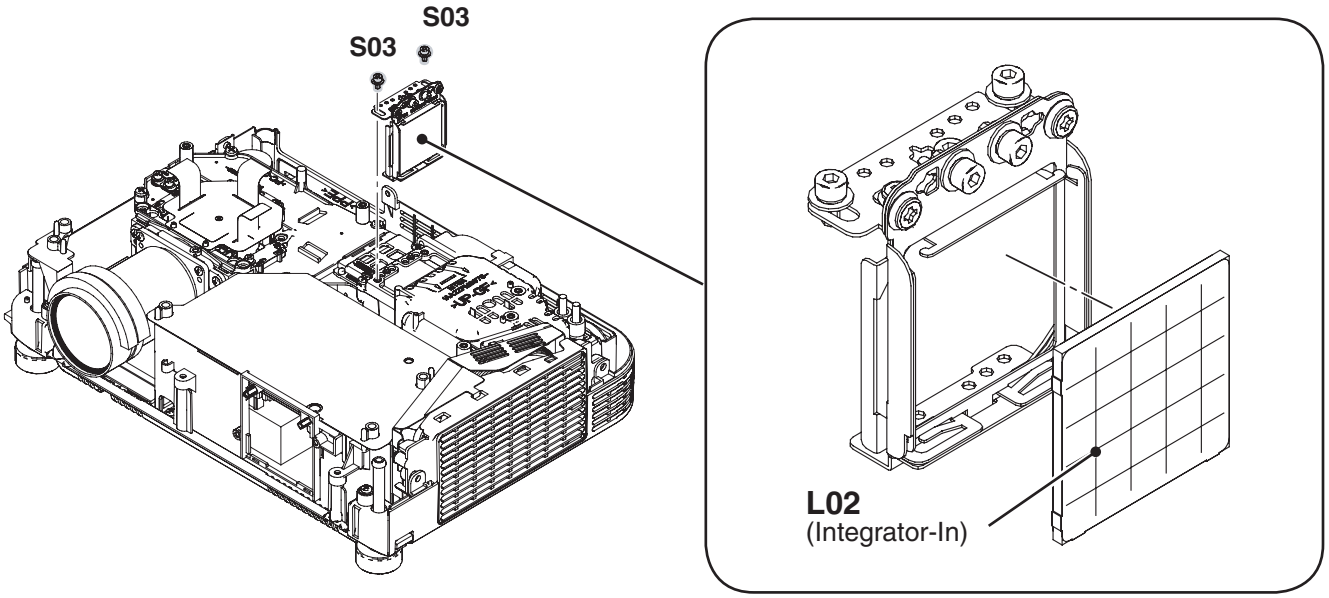
Mechanical Parts List

Cabinet Parts Location

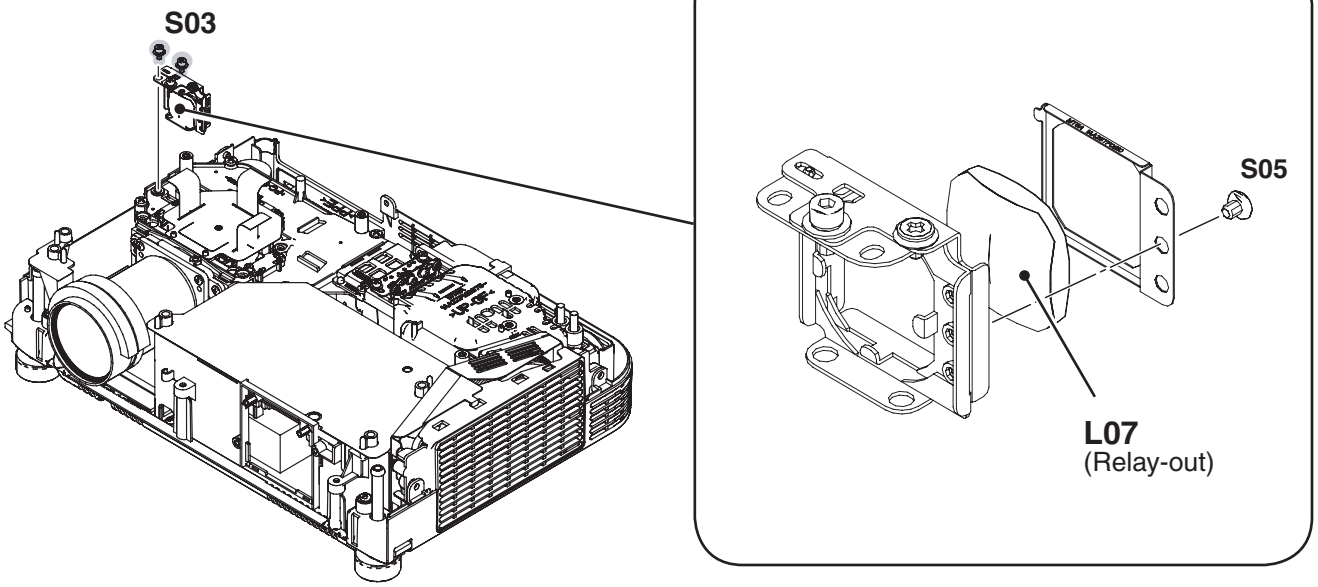


Optical Parts Location

Integrator Lens-In

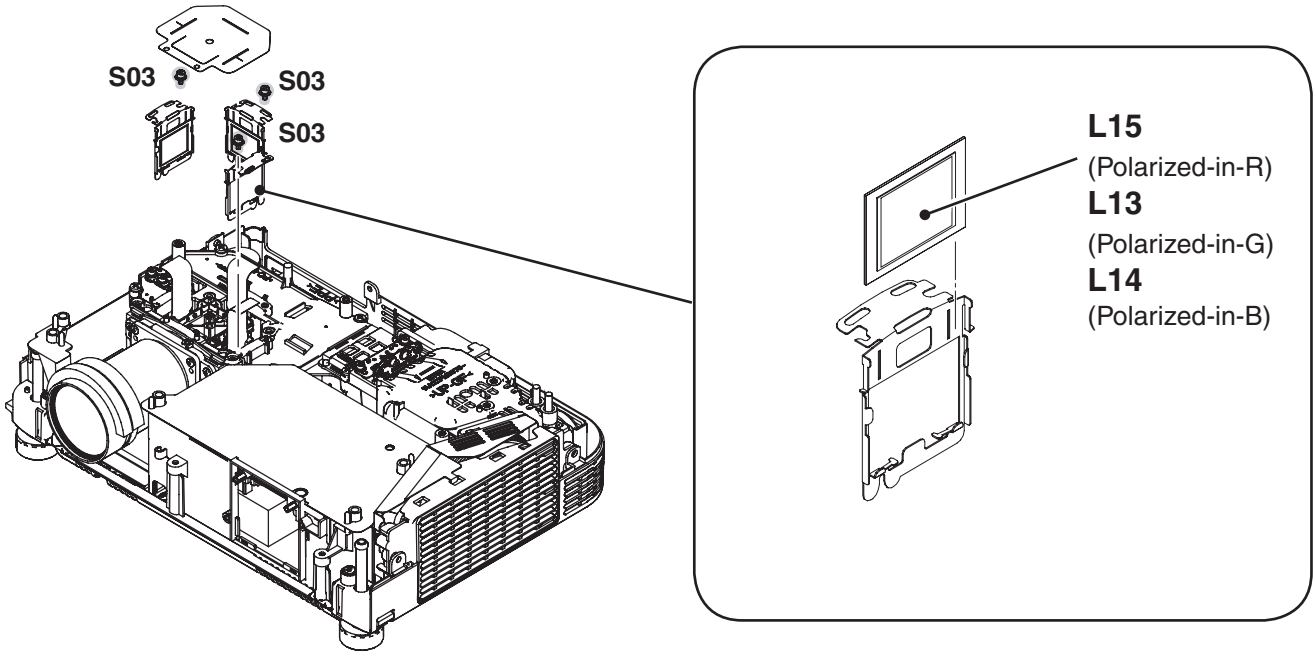


Relay Lens-Out

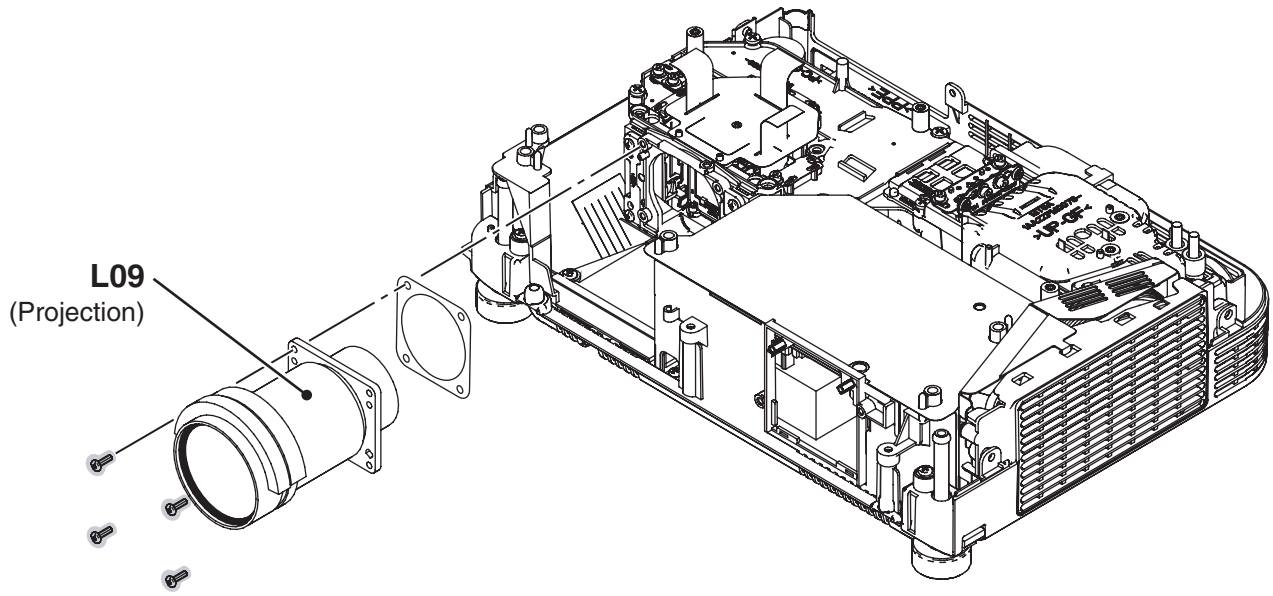


Mechanical Parts List

Polarized Glass-In

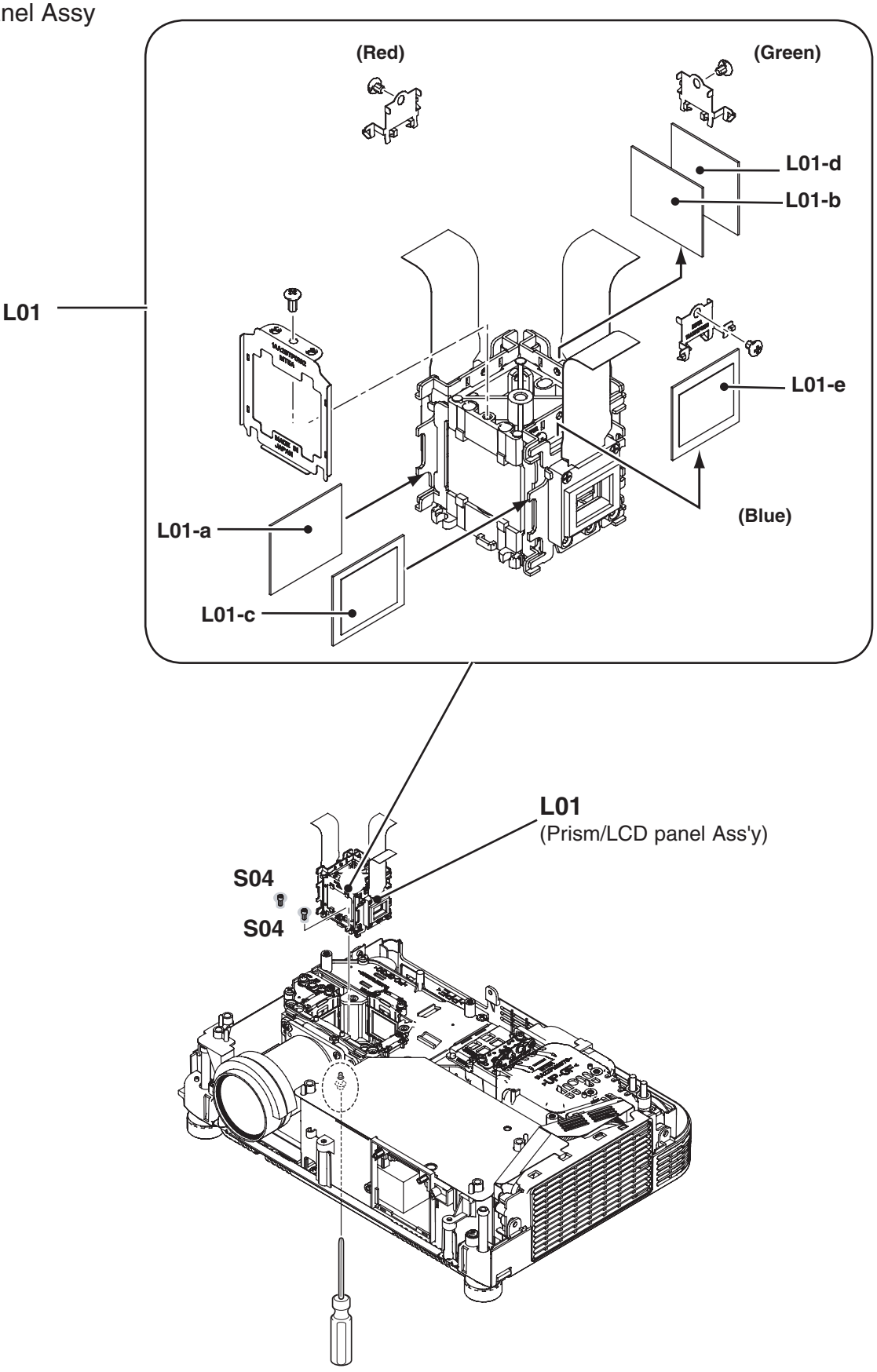


Projection Lens



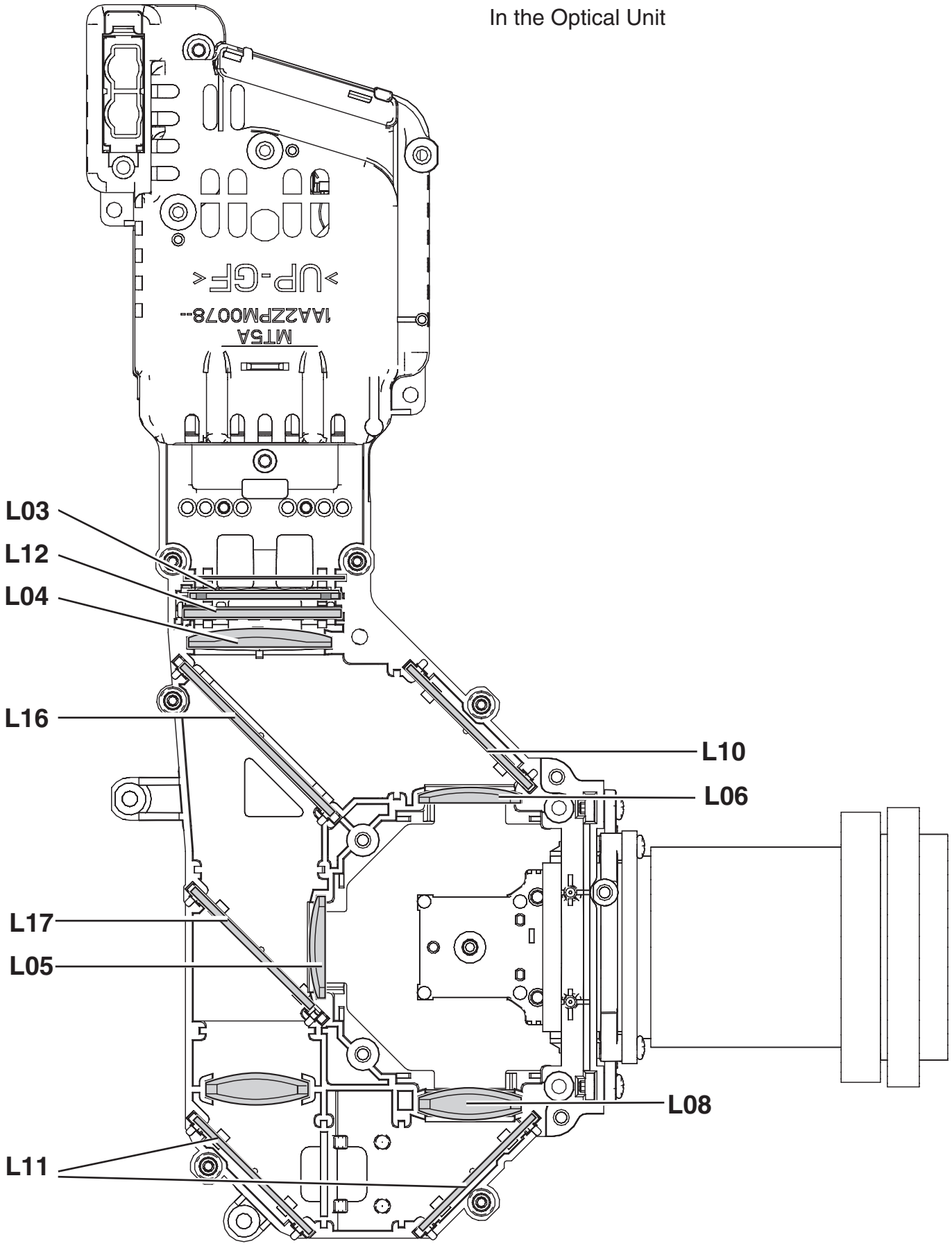
Mechanical Parts List

Prism/LCD Panel Assy



Mechanical Parts List

In the Optical Unit



Mechanical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

Key No.	Part No.	Description
CABINET PARTS		
C01	610 323 1778	ASSY,STAND LEG-MT5A
C02	610 328 5856	CABINET TOP SERVICE-LG6A
	(Including Key No. C02-a to C02-c)	
C02-a	610 329 9013	DEC SHEET TOP-LG6A
C02-b	610 324 2385	DEC AV SHEET A-MT5A
C02-c	610 328 4224	DEC SHEET BUTTON-LG6A
C03	610 329 8689	CABINET FRONT-LG6A
C04	610 329 8931	CABINET BOTTOM SERVICE-LG6A
C05	610 311 4798	CAP LENS-MY3A
C06	610 329 8917	COVER ,LP SERVICE-LG6A
C07	610 323 3079	COVER, FUSE-MT5A
C08	610 323 1761	DEC RING-MT5A
C09	610 323 2348	DEC INLAY LED-MT5A
C10	610 295 3084	DEC LEG-MW6A
C11	610 302 5612	DEC SHEET-M4JA
C12	610 323 1860	FILTER BASE B-MT5A
C13	610 323 2416	FILTER BASE F-MT5A
C14	610 329 9648	GRILLE -LG6A
C15	645 047 8031	BADGE,SANYO*26.2X5.7L26.0
C16	610 325 2063	DEC INLAY LED-PZ5A
C17	610 329 9020	COVER, ALARM BATTERY-LG6A
C18	610 329 8672	COVER, ALARM-LG6A
CHASSIS PARTS		
M01	610 323 2324	DEC AV SHEET-MT5A
M02	610 323 2362	HOLDER POWER PWB B-MT5A
M03	610 323 3093	HOLDER LN FLT-MT5A
M04	610 323 2218	MOUNTING DUCT TOP-MT5A
M05	610 323 2263	MOUNTING DUCT PBS-MT5A
M06	610 323 2423	MOUNTING DUCT TOP#PNL-MT5A
M07	610 323 1938	MOUNTING DUCT BTM#PNL-MT5A
M08	610 323 1945	MOUNTING DUCT LP-MT5A
M09	610 322 2752	PANEL AV-MT5A
M10	610 328 4002	SPACER SHEET#POWER T BTM-MY5A
M11	610 328 4019	SPACER SHEET#POWER T TOP-MY5A
M12	610 321 7819	OPTICAL BASE BTM-MT5A
M13	610 321 7895	OPTICAL BASE TOP A-MT5A
M14	610 321 7789	OPTICAL BASE TOP B-MT5A
M15	610 325 2025	HOLDER ALARM PWB -PZ5A
SCREWS		
S01	411 189 8600	SCR BIN 3X8
S02	411 203 9507	SCR TPG FLT 3X6
S03	411 189 6507	BOLT HEX-SCT+SW+W 2.5X5
S04	312 069 7105	SPECIAL SCREW V
S05	411 192 9601	SCR BIN 2X3
OPTICAL PARTS		
L01	610 326 5476	ASSY,LCD PNL/PSM -MS5A
	(Including Key No. L01-a to L01-e, and LCD Panels)	
L01-a	645 081 7823	POLARIZED GLASS(OUT/R)
L01-b	645 081 5348	POLARIZED GLASS(OUT/G)
L01-c	645 081 5355	POLARIZED GLASS(OUT/B)
L01-d,e	645 080 8661	PRE-POLARIZED GLASS(AR)
L02	645 078 0691	LENS,INTEGRATOR(IN)
L03	645 087 0842	LENS,INTEGRATOR(OUT)-NC
L04	645 078 0721	LENS,CONDENSER(OUT)
L05	645 078 0738	LENS,CONDENSER(G)
L06	645 078 0745	LENS,CONDENSER(B)
L07	645 078 0752	LENS,RELAY(OUT)
L08	645 078 0769	LENS,CONDENSER(R)
L09	645 078 4149	LENS,PROJECTION
L10	645 078 0806	MIRROR(B)
L10	645 081 7649	MIRROR(B)
L11	645 078 0813	MIRROR(R)
L11	645 081 7656	MIRROR(R)
L12	645 078 0844	PRISM(PBS)
L12	645 081 8509	ASSY,PRISM(PBS)
L15	645 080 8654	POLARIZED GLASS(IN/R)AR
L13	645 081 5324	POLARIZED GLASS(IN/G)
L14	645 081 5331	POLARIZED GLASS(IN/B)
L16	645 078 0776	DICHROIC MIRROR (B)
L17	645 078 0783	DAICHROIC MIRROR(G)

Mechanical Parts List

(LG6A) Jun. 2006 BB 270 Printed in Japan

SANYO Electric Co., Ltd.

Diagrams & Drawings

Schematic Diagrams
Printed Wiring Board Drawings

Model	Chassis No.
PLC-XE31	LG6-XE3100

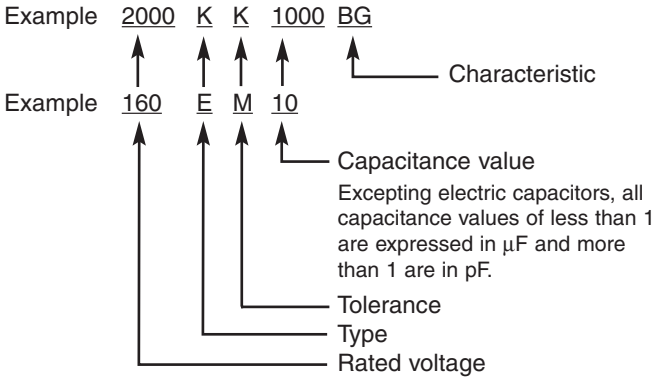
These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. LG6-XE3100 model PLC-XE31.
File with the service manual No. SM5110786-00

Note:
All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading


Example 2000 K K 1000 BG
Characteristic
Example 160 E M 10
Capacitance value
Excepting electric capacitors, all capacitance values of less than 1 are expressed in μF and more than 1 are in pF.
Tolerance
Type
Rated voltage

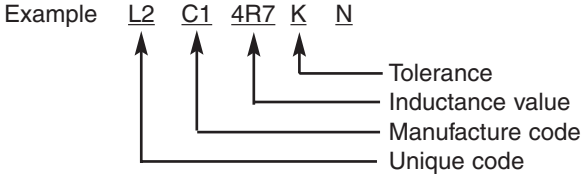
Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypromylar
B	Ceramic (semiconductor)
G	Metalized polyestel
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

Tolerance table

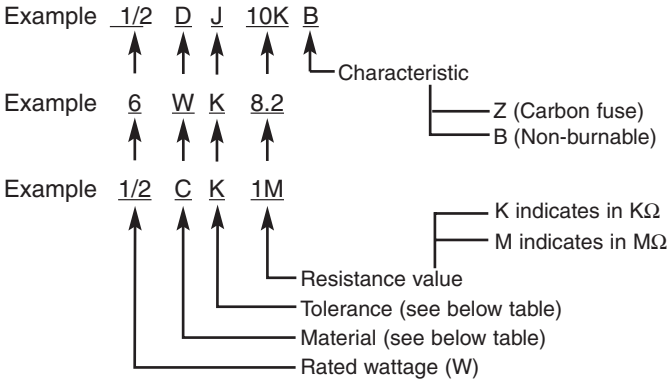
Mark	Tolerance
A	not specified
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
E	±2.5
H	±3
J	±5
K	±10
M	±20
N	±30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		M	±20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire wounding or cement
H	Ceramic
F	Fusible

Tolerance table

Mark	Tolerance
A	±0.05
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
J	±5
K	±10
M	±20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

Diode

Mark	Type number
R	1S2076A,1S2473,1N4148
AA	1S2076A,1S2473,1SS133,1N4148

Transistor

(1) NPN type

Mark	Type number				
--	2SC536	2SC945A	2SC1815	2SC1740S	
AD	NF, NG	PA, QA	Y, GR	Q, R, S	
AE	NF, NG	PA, QA, RA	O, Y, GR	Q, R, S	

(2) PNP type

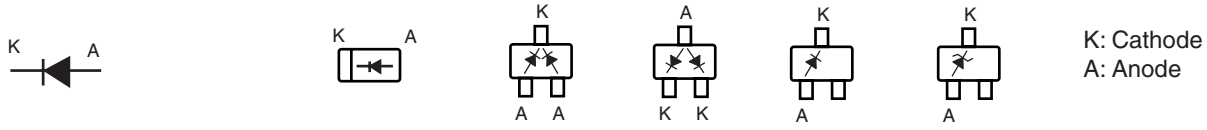
Mark	Type number				
--	2SA608	2SA564A	2SA1015	2SA933S	
AB	NF	R	Y, GR	R	
AC	NF	Q, R	O, Y, GR	Q, R	

(3) Chip type

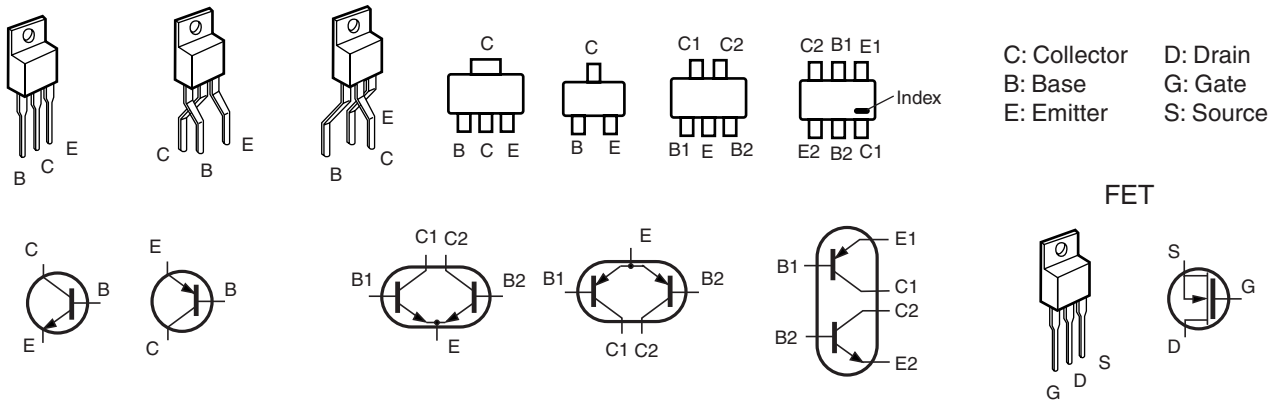
Mark	Type number				
--	2SA1179/N	2SA1037K	2SA1037AK	2SC2812/N	2SC2412K
AJ	M6, M7	R, S	R, S		
AH				L6, L7	R, S

Pin description of diode, transistor and IC

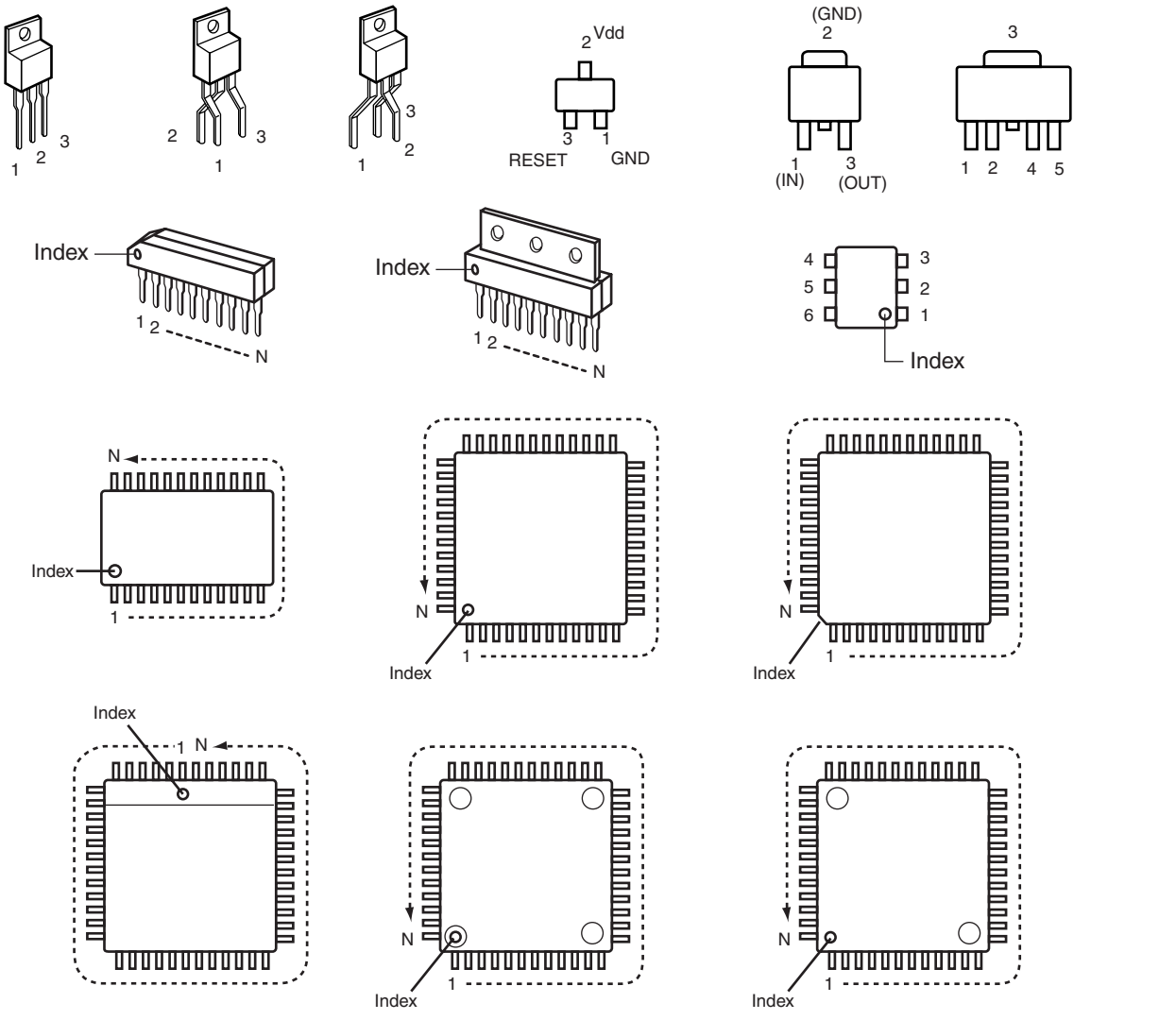
● Diode



● Transistor/FET



● IC



Schematic Diagrams

CAUTION

Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accident.

CAUTION

Components indicated by a mark ⚠ in this schematic diagram have the special significance in the safety. It is therefore, particularly recommended that the replacement of those parts must be made by exactly the same parts.Must be used with a specified fuse. Unauthorized substitutions may result in fire or accident.
This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing.
1. Do not touch the part on hot side (primary circuit) or both parts on the hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring the voltages and waveform.

PC1

RGB/
YCbCr/
SCART

PC2
RGB-IN/
RGB-OUT

S-VIDEO
VIDEO

VIDEO
AUDIO_IN

PC
AUDIO_IN

AUDIO_OUT

USB
FUNCTION

CONTROL
PORT

RESET_SW

IC5201
AN5870SB

PC1/PC2-SW

IC4001
LMH6739

AMP

SYNC I/O-SW

IC4071
TC7WT241FU

IC4011
TC74HC4053AFT

IC101
VIDEO
DECODER

IC5001
AUDIO
CONTROL

IC101
VIDEO
DECODER

IC301
SCAN
CONVERTER
&
SYSTEM
CONTROL

A/D

IC8201
AD9883AKSTZ

SYNC SEP.

IC5301
BA7078AF

IC5302
TC7WH125FU

TO IC8201

TO IC5301

TO IC5001

TO IC1801

TO IC3801

IC301 SCAN CONVERTER & SYSTEM CONTROL

IC101
UPD64012GJ

VIDEO DECODER & A/D

IC1801
TE7783PF

I/O EXPANDER

OPTION SW

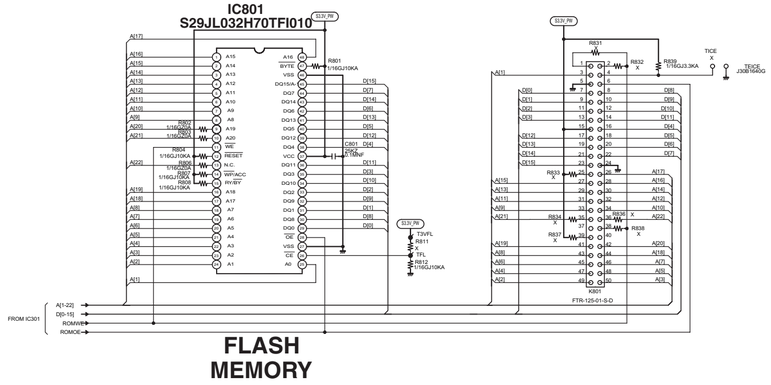
IC1802
SI-3025LSA-TL

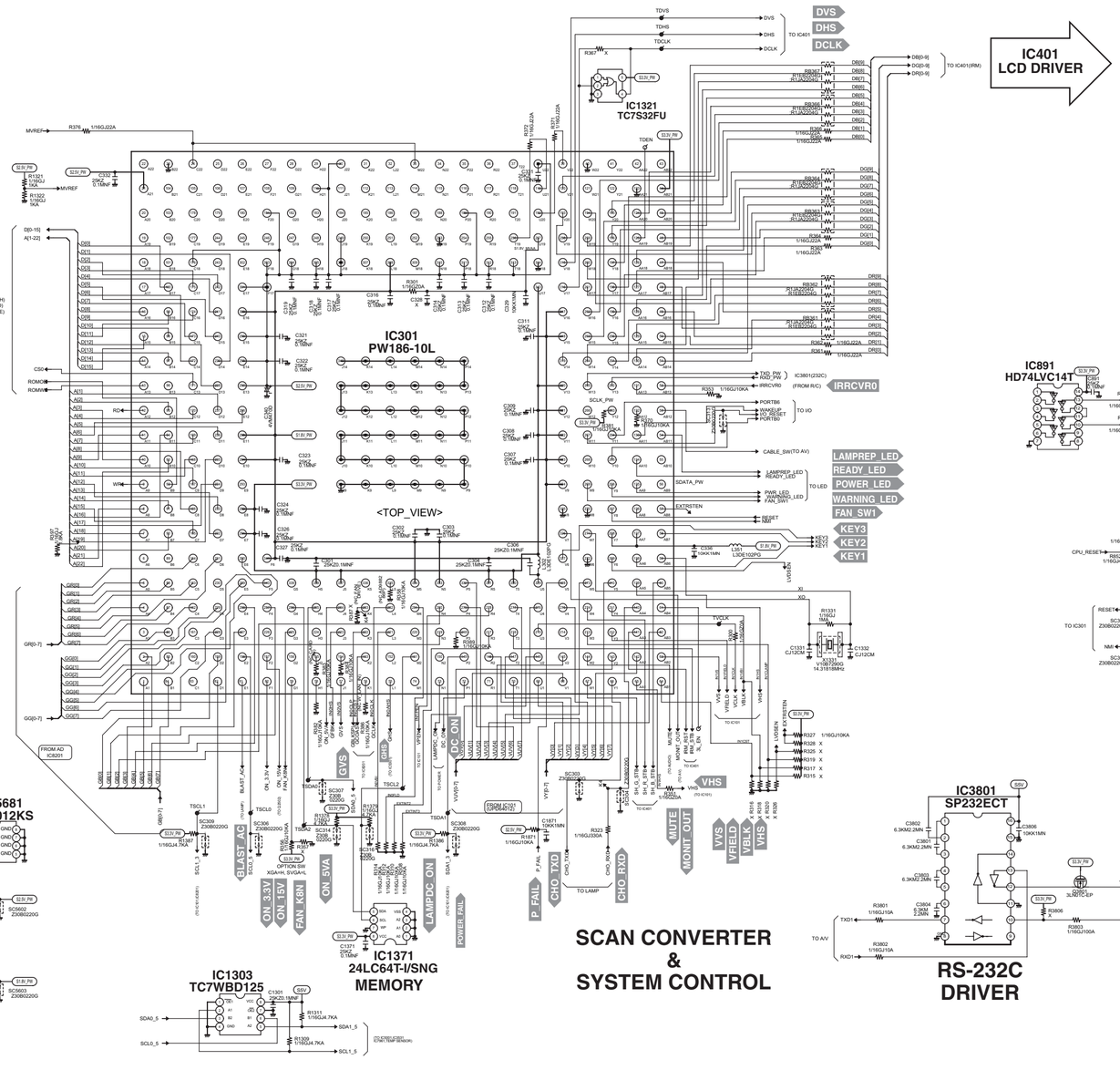
IC161
BA33BC0FP
:BA033FP

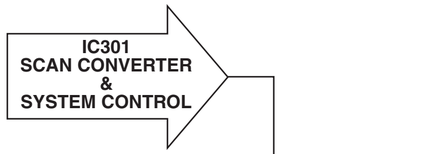
IC8291
BA15BC0FP

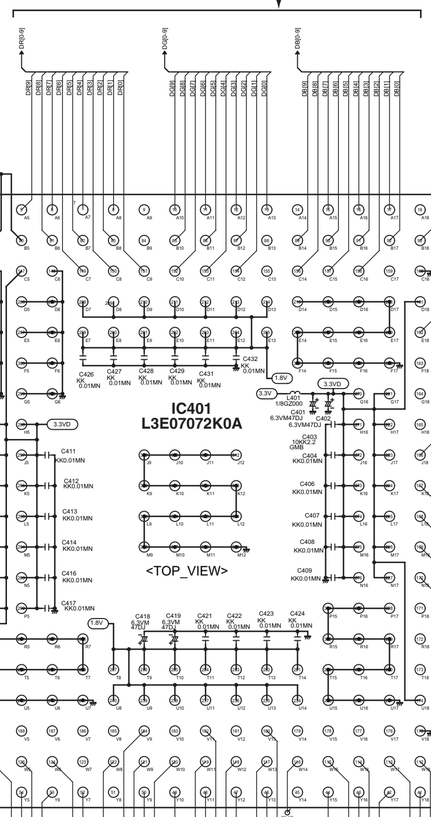
IC5201 PC1/PC2-SW

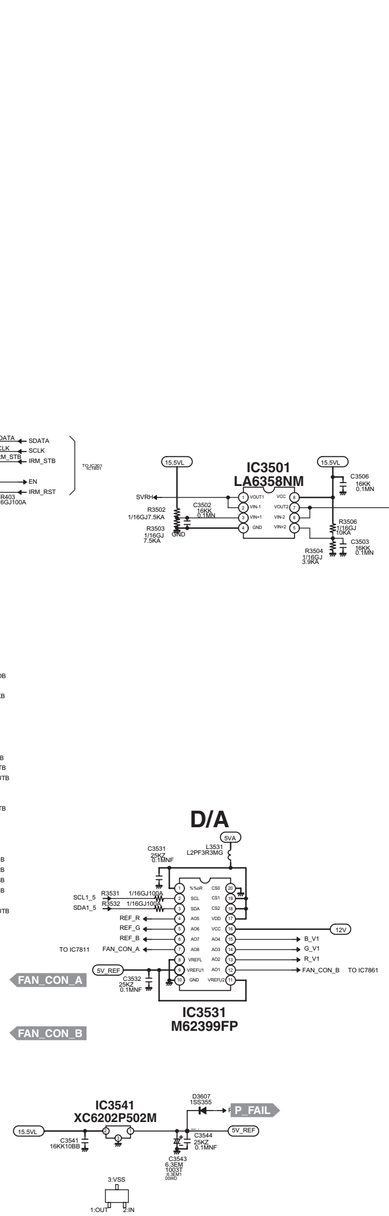
IC301 SCAN CONVERTER & SYSTEM CONTROL

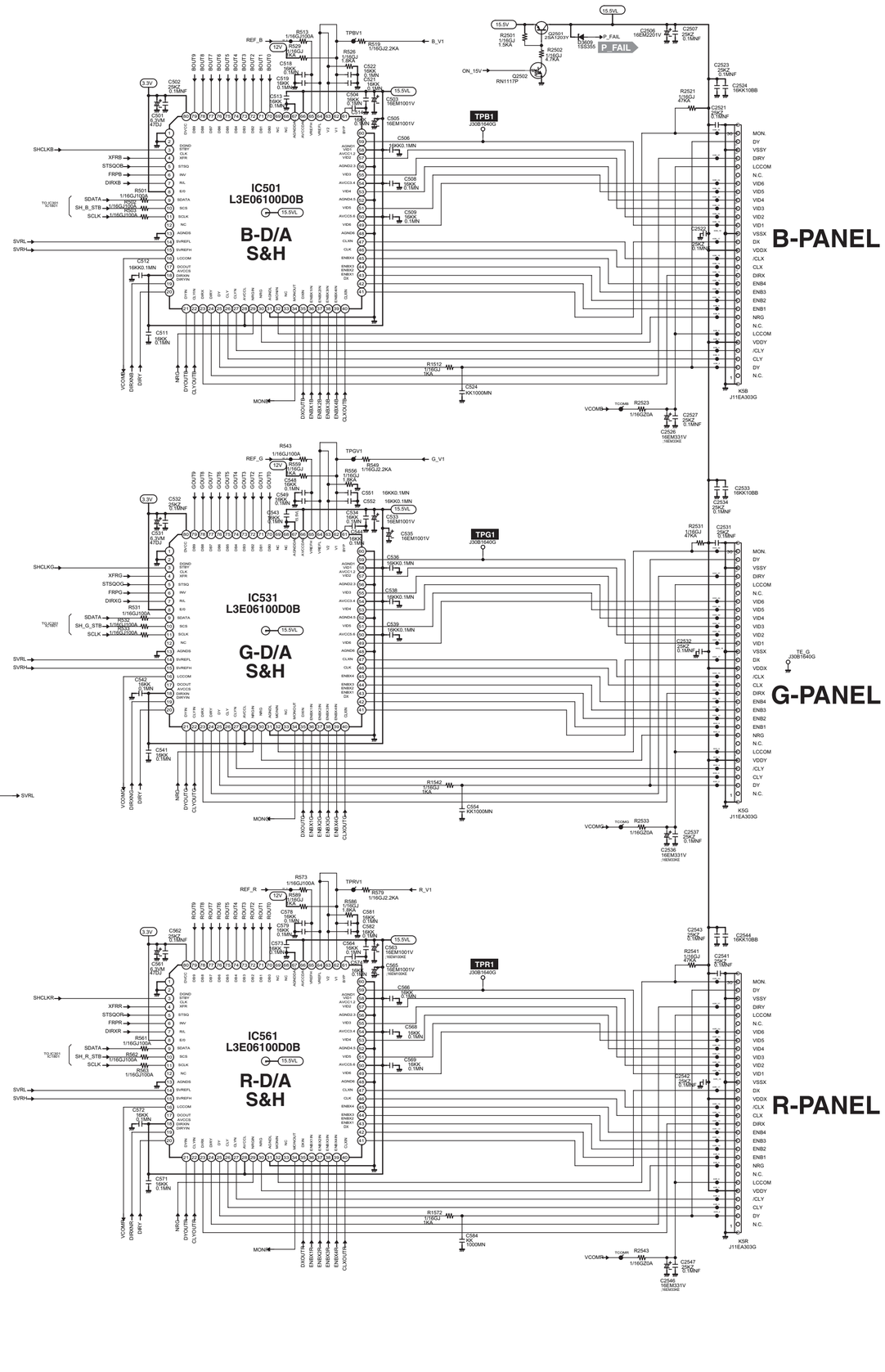

IC801
S29JL032H70TFI010
FLASH
MEMORY
FROM IC301
A[1-22]
D[0-15]
ROMWE
ROMOE
FTR-125-01-S-D


IC1321
TC7S32FU
IC301
PW186-10L
<TOP_VIEW>
IC1371
24LC64T-I/SNG
MEMORY
SCAN CONVERTER
&
SYSTEM CONTROL
IC401
LCD DRIVER
DVS
DHS
DCLK
IRRCVR0
R/C
LAMPREP_LED
READY_LED
POWER_LED
WARNING_LED
FAN_SW1
KEY3
KEY2
KEY1
VHS
MUTE
MONIT_OUT
IC5681
SI-3012KS
IC5651
BA9743AFV
IC1303
TC7WBD125
IC891
HD74LVC14T
IC842
TC7W126FU
IC844
TC7S04F
IC841
PST573M
IC3801
SP232ECT
RS-232C
DRIVER


IC301
SCAN CONVERTER
&
SYSTEM CONTROL


DVS
DHS
DCLK
TO IC301
IC401
L3E07072K0A
<TOP_VIEW>
LCD DRIVER
GAMMA
CORRECTION


D/A
IC3531
M62399FP
FAN_CON_A
FAN_CON_B
IC3541
XC6202P502M
P_FAIL
IC3501
LA6358NM


IC501
L3E06100D0B
B-D/A
S&H
B-PANEL
IC531
L3E06100D0B
G-D/A
S&H
G-PANEL
IC561
L3E06100D0B
R-D/A
S&H
R-PANEL
TPB1
TPG1
TPR1
P_FAIL

LED

LED_SW

D6831 LAMP REPLACE(Y)
D6832 TEMP WARNING(R)
D6833 STAND-BY (RED ON)
LAMP ON (GREEN ON)

POWER LAMP (GREEN)
READY (RED)

LAMPREP_LED
WARNING_LED
READY_LED
PWR_LED

ALERM-A

I/O_TC
I/O_CLK0
I/O_TXD0
I/O_RXD0
I/O_AN3
I/O_ALART_OUT

R/CS

KEY1
KEY2
KEY3
TO IC301

LAMP BALLAST

IC9882
TC74ACT14FT

CHO_TXD
CHO_RXD
TO IC301

LINE FILTER

IC4891
TC7SET00FU

BLAST_AC (TO IC301)
FAN_ERR

POWER

IC5601
BA05FP ;BA50BC0FP

IC5641
SI-3012KS

IC5642
BA09FP

IC491
SI-3018KS

IC5631
SI-3033ZD

DC_ON
LAMPDC_ON

P_FAIL

FAN

G/R-PNL	B-PNL	EXHAUST SIDE LAMP	EXHAUST FRONT	EXHAUST SIDE POWER	PBS
FN904	FN903	FN901 60X25mm	FN906 52X15mm	FN902 60X15mm	FN905

FAN_ERR
P_FAIL

FAN CONTROL-A

IC7811
FA7701V

TPFANA
FAN_A

FAN_SW1
FAN_CON_A

FAN CONTROL-B

IC7861
FA7701V

TPFANB
FAN_B

FAN_CON_B

IC5001
NJW1141M

(FROM AV JACK)
VIDEO_R
VIDEO_L
PC_L
PC_R

AUDIO CONTROL

(TO AV JACK)
OUT_L
OUT_R
MUTE
(MUTE: HIGH)

IC5081
L88MS05TL

ON_5VA

IC5031
LM4889MM

AUDIO OUTPUT

OUT_DET
(FROM AV)

SP

IC8811 / IC8821 / IC8831
LM76CHMX

TEMP SENSOR 3 (LAMP)
TEMP SENSOR 2 (PANEL)
TEMP SENSOR 1 (OUTSIDE)

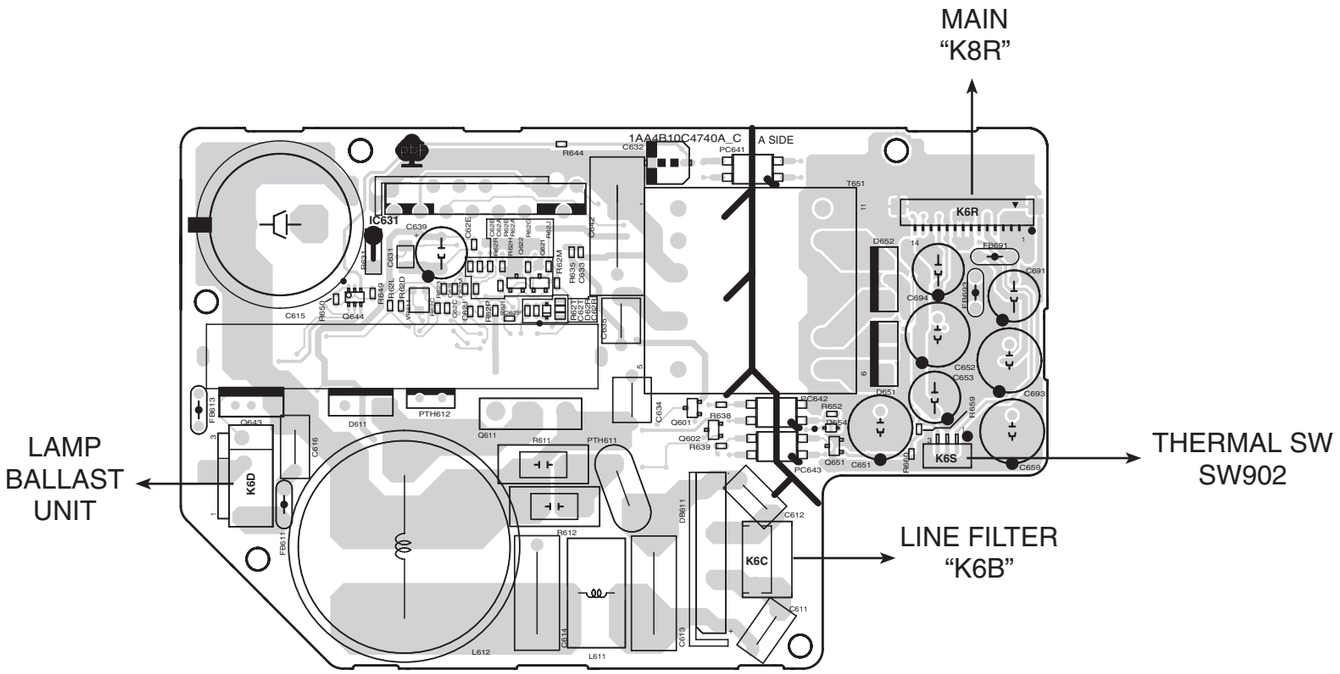
SDA1_5
SCL1_5

	SVGA	XGA
R600	0	X
R699	X	O

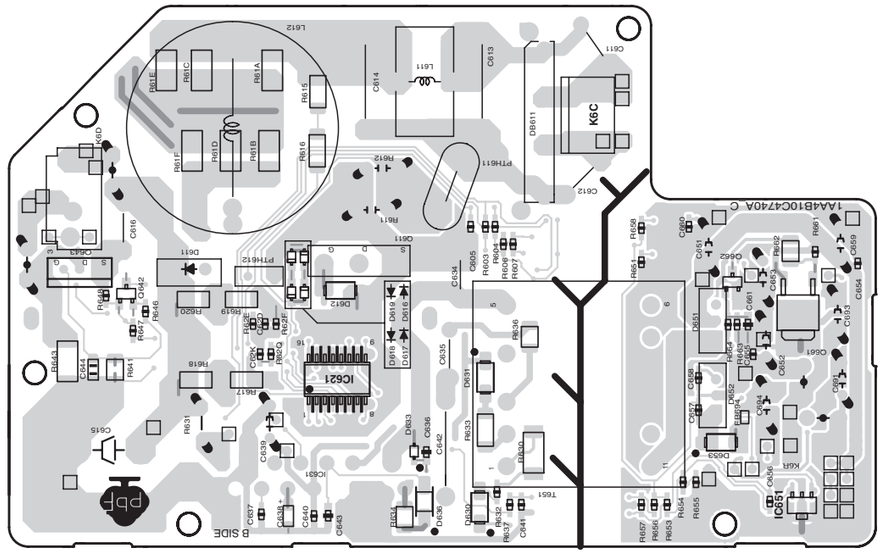
LG6A-06

Printed Wiring Board Diagrams

POWER (SIDE:A)



POWER (SIDE:B)



⚠ CAUTION

This projector is isolated from AC line by using the internal converter transformer.
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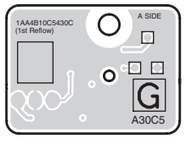
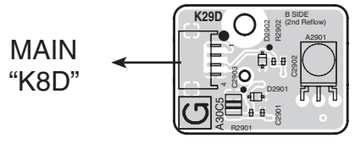
1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

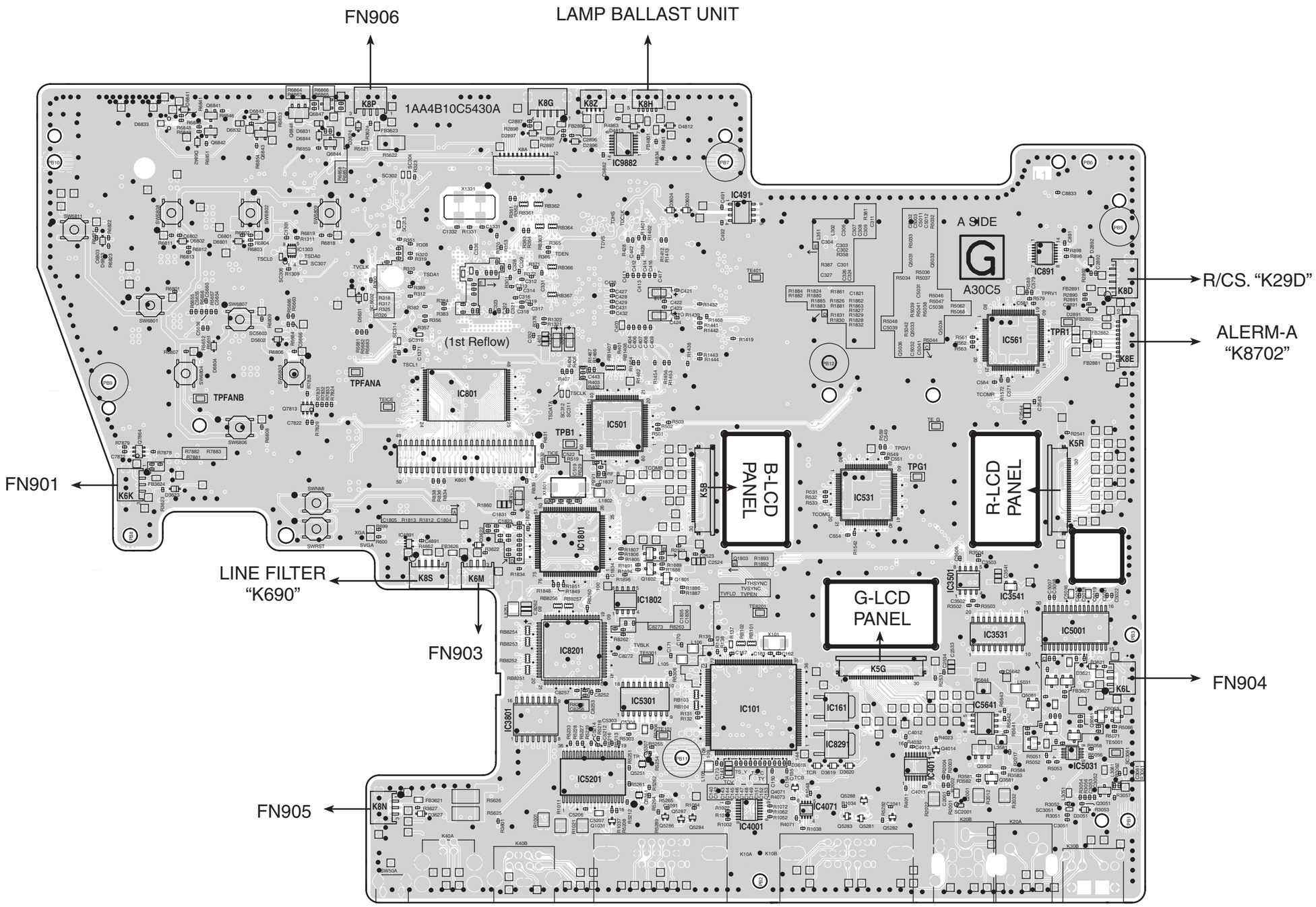
R/CS (SIDE:A)



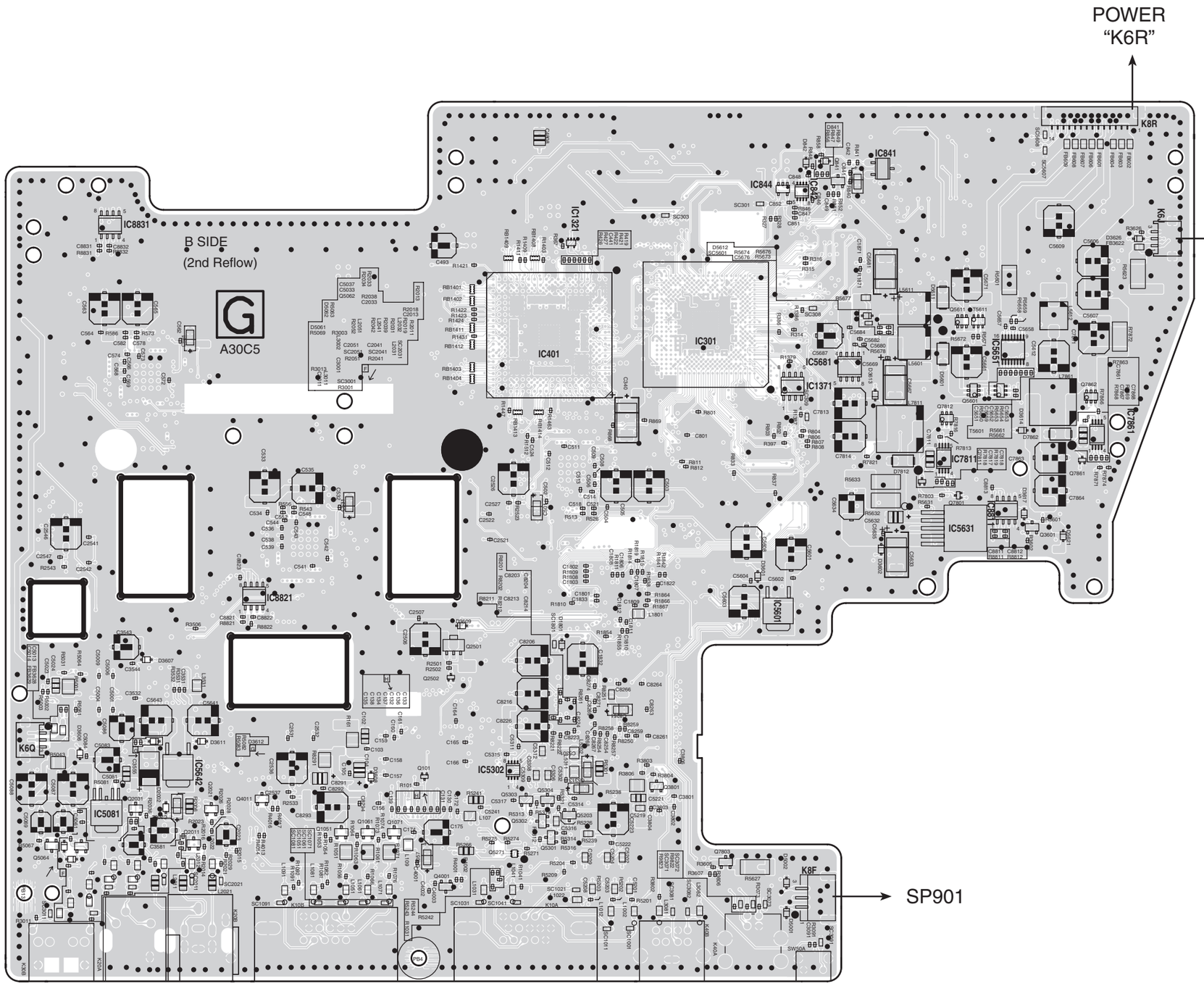
R/CS. (SIDE:B)



MAIN (SIDE:A)

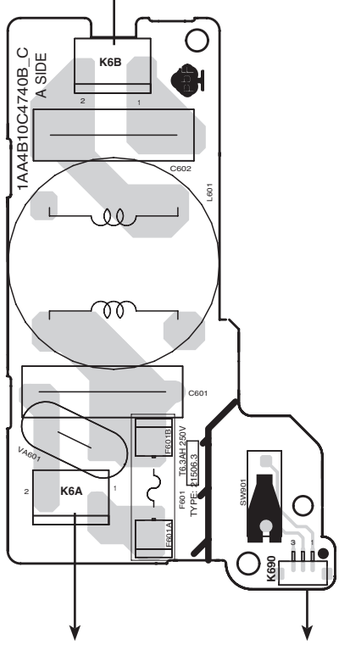

FN906
LAMP BALLAST UNIT
1AA4B10C5430A
A SIDE
A30C5
R/CS. “K29D”
ALERM-A
“K8702”
FN901
LINE FILTER
“K690”
FN903
FN905
FN904
B-LCD PANEL
R-LCD PANEL
G-LCD PANEL
(1st Reflow)
TPFANA
TPFANB
TPB1
TPG1
TPR1
IC801
IC501
IC1801
IC1802
IC8201
IC5301
IC101
IC161
IC829
IC5201
IC3801
IC4001
IC4071
IC531
IC561
IC3501
IC3541
IC3531
IC5001
IC5031
IC891
IC9882
IC491
K8P
K8G
K8Z
K8H
K8D
K8E
K5R
K5G
K6L
K6K
K8S
K6M
K8N

MAIN (SIDE:B)


POWER
"K6R"
K8R
K6R
FN902
B SIDE
(2nd Reflow)
A30C5
IC8831
IC8821
IC5642
IC5081
IC401
IC301
IC1321
IC841
IC842
IC844
IC5681
IC1371
IC5651
IC7861
IC7811
IC5631
IC5601
IC5302
K6Q
K8F
SP901

LINE FILTER (SIDE:A)

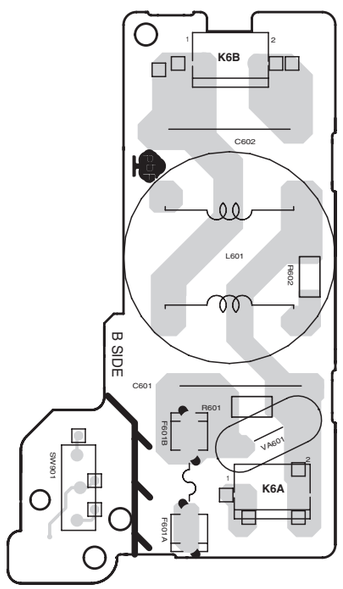
POWER
“K6C”



LF901

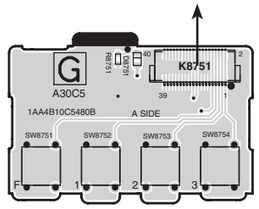
MAIN
“K8S”

LINE FILTER (SIDE:B)

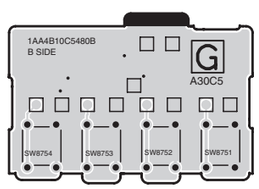


ALERM-B (SIDE:A)

ALARM-A
“K8703”

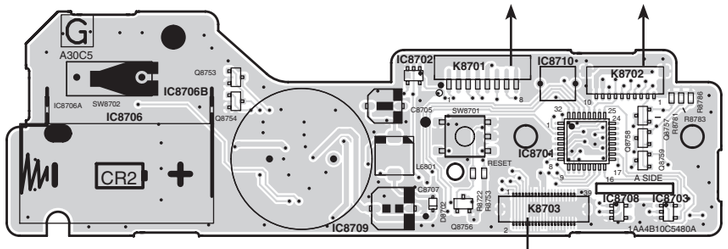


ALERM-B (SIDE:B)



ALERM-A (SIDE:A)

MAIN
“K8E”



ALERM-B
“K8751”

ALERM-A (SIDE:B)